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## FERTILIZER REPORT 1928

JAMES W. KELLOGG,  
Director—Chief Chemist

BUREAU OF FOODS AND CHEMISTRY



C. G. JORDAN, *Secretary of Agriculture*

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LETTER OF TRANSMITTAL

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PENNSYLVANIA DEPARTMENT OF AGRICULTURE  
BUREAU OF FOODS AND CHEMISTRY

Harrisburg, April 25, 1929.

Hon. C. G. Jordan,  
Secretary of Agriculture,  
Harrisburg, Pa.

Dear Sir:

I have the honor to transmit herewith for your approval a report showing the tabulated results of chemical analyses made by this Bureau, in accordance with the requirements of the Fertilizer Law, of the official samples of Commercial Fertilizers obtained by the Special Agents during the Spring and Fall shipping seasons of 1928.

It is recommended that this report be published in bulletin form for distribution.

Very respectfully,

JAMES W. KELLOGG,

Director—Chief Chemist.



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# FERTILIZER REPORT

## 1928

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### Introduction

The Fertilizer Law, Act of May 1st, 1909, as amended, defines Commercial Fertilizers as including any and every substance sold for fertilizing or manuring purposes except marl, lime, wood ashes and the dung of domestic animals; fixes a standard of not less than fourteen units or 14 per cent. of total plant food, nitrogen equivalent to ammonia, available phosphoric acid and potash, for mixed Fertilizers; provides that all brands be registered for each calendar year and before being offered for sale and requires all sacks or attached cards to be printed with net weights, brand or trade names, names of Manufacturers or Importers and guarantees for the minimum percentages of nitrogen, ammonia, total and available phosphoric acid and water soluble potash which they contain. All Fertilizers containing less than 1 per cent. of ammonia, available phosphoric acid or water soluble potash and mixtures having the word "tobacco" as a part of the brand name and which contain chloride of potash, are prohibited. A license fee of from \$15 to \$50 is required to be paid for every brand or kind of Fertilizer registered, the rates being \$15 for new brands and in the case of brands sold during any preceding year and re-registered the fees are based on the tonnage amount sold as follows: Sales up to 150 tons, \$15; 150 to 250 tons, \$20; 250 to 400 tons, \$30; 400 to 500 tons, \$40, and over 500 tons, \$50.

The number of tons of Fertilizer sold during the preceding year is required to be reported and included with applications for registrations on forms which are supplied regardless of whether any brands sold during a preceding year may be re-registered or discontinued in order that the amount of fees may be estimated for those to be registered and the amount of tonnage sales in all cases properly recorded.

Enforcement of the law is provided for by authorizing the collection and analyses of official samples for the purpose of establishing the correctness of guarantees and method of branding and for the publication of the results obtained for the information of the public. Accordingly during the Spring and Fall shipping seasons Special Agents of the Bureau collected 2562 official samples from selling agencies throughout the Commonwealth and submitted them for examination, together with reports covering each lot or shipment sampled showing the information printed upon sacks or attached cards and sales conditions. Of this number, 2,291, representing brands registered for 1928, were accordingly

analyzed for the amounts and forms of plant food which they were guaranteed to contain, namely, nitrogen, total, available and insoluble phosphoric acid and water soluble potash. There were 688 different brands registered by 78 Manufacturing and Importing firms, which, together with the number of brands and samples in each, were as follows:—

	<i>Brands</i>	<i>Samples</i>
Complete Fertilizers .....	452	1,562
Ground Bone Fertilizers .....	26	60
Superphosphate Fertilizers .....	70	326
Lime Phosphate Fertilizers .....	13	34
Rock and Potash Fertilizers .....	57	174
Miscellaneous Fertilizers .....	70	135
Totals .....	688	2,291

Registrations were received from 138 Manufacturing and Importing firms for 1928 and 263 licenses were issued, authorizing the sale of 1232 different brands and kinds of Fertilizers of which 842 represented mixed Fertilizers containing 14 per cent. or more total units of plant food and 390 base materials. The amount of Fertilizers sold during the preceding year, 1927, reported with applications for 1928 registration, totalled 326,514 tons, which amount is 2390 tons less than reported as being sold for 1926. Of this amount 211,692 tons were Complete Fertilizers, 67 tons Nitrogen and Phosphoric Acid Fertilizers, 19,211 Phosphoric Acid and Potash Fertilizers, 81,704 tons Superphosphate Fertilizers, 3,606 tons Ground Bone Fertilizers, 2,457 tons Tankage, 3,407 tons Nitrate of Soda, 2,361 tons Potash Fertilizers, 1,363 tons Sulphate of Ammonia, 15 tons Dried Blood and 631 tons of Miscellaneous Fertilizers. The amount of plant food supplied by the total tonnage reported as being disposed of during 1927 and as estimated from the guarantees included in registration was approximately 5,875 tons of ammonia, 52,149 tons of available and total phosphoric acid and 22,777 tons of water soluble potash, making a total of 80,801 tons of plant food.

## CONCLUSIONS

The results of the 1928 inspection compared with that of the preceding year shows considerable improvement in guarantees for the plant food supplied. The average composition of each class was slightly higher than the averages estimated for 1927, showing a tendency to increase the plant food units and to sell higher grade materials. It may be fairly stated, therefore, that while the proportion of variations from guarantees is low, making continued improvement desirable, the general situation with respect to the sale of Fertilizers is such as to afford to consumers ample protection against the sale of misbranded materials.

The results of analyses of the 2,291 official samples showed that 264, or 11.5 per cent., were deficient in one or more forms of plant food guaranteed. Samples were classified as deficient which failed to meet guarantees to the extent of .20 per cent. or more and in

the case of guarantees of .50 per cent. or less where deficiencies amounted to .1 per cent. or more. This proportion of deficiencies was considerably less than that of 18.9 per cent. estimated for the 1927 inspection as well as approximately the same proportion lower than for the 1924, 1925 and 1926 seasons' inspection work, and shows a considerable improvement in the method of guaranteeing for the Fertilizers offered for sale during 1928, based on the samples examined. The proportion of deficiencies in the separate classes of Fertilizers were as follows: Completes 14.1 per cent., Ground Bones 13.3 per cent., Superphosphates 1.2 per cent., Lime Phosphates 8.8 per cent., Rock and Potash 10.9 per cent. and Miscellaneous Fertilizers 7.4 per cent. The estimated deficiencies for each form of plant food taken separately shows that 55, or 3.2 per cent., of those guaranteed for nitrogen were deficient, 8, or 10.8 per cent., were deficient in total phosphoric acid, 79, or 3.8 per cent., in available phosphoric acid and 143, or 8.0 per cent., in water soluble potash. A comparison of the deficiencies for each form of plant food estimated for the 1927 inspection shows corresponding decreases as in the case of the total deficiencies except in the case of total phosphoric acid, which was about 1 per cent. higher than for 1927.

The 1,232 brands of Fertilizers registered for 1928 sales were slightly lower than the 1,272 registered for the preceding year. There was also a corresponding decrease in the tonnage sales of 326,514 reported for 1927 activities compared with 328,904 tons disposed of during 1926. On the other hand the total of 80,801 tons of plant food supplied by the Fertilizers reported as sold during 1927 was in excess of the 55,402 tons estimated as being supplied by the brands reported as sold during 1927, which figures were arrived at from the guarantees accompanying each class and brand included. This increase in total plant food tonnage may be largely attributed to an increase in the proportion of total plant food supplied by the Fertilizers disposed of and as a result of the requirements in the law, which prohibits the sale of mixtures containing less than 14 total units of plant food. Microscopical examinations of the samples did not reveal the presence of prohibited materials. There were, however, a number of non-registered brands found being offered for sale, making it necessary to hold the Selling Agents responsible for these failures to meet the requirements.

The average retail selling values per ton for the several classes of Fertilizers were estimated as follows: Complete Fertilizers, \$34.08; Ground Bone Fertilizers, \$55.49; Superphosphate Fertilizers, \$21.51; Lime Phosphate Fertilizers, \$21.88; Rock and Potash Fertilizers, \$26.46 a ton. These average values were all in excess of those estimated for the same classes reported for the 1927 inspection, as will be noted in Table II. On the basis of these retail values approximate average unit values for the three forms of plant food supplied were estimated as being \$4.79 a unit for nitrogen, \$1.19 a unit for available phosphoric acid and \$2.11 a unit for water soluble potash. Compared with unit values estimated for 1927 inspection season those for nitrogen and phosphoric acid were higher and for potash slightly lower.

The Complete Fertilizers, supplying nitrogen, available phosphoric acid and water soluble potash, included approximately two-thirds of the total samples and brands examined, numbering 1,562 samples and 452 brands registered by 71 companies. They were all guaranteed to contain 14 per cent. or more total plant food, as is required by the law. Of this number 220, or 14.1 per cent. of the samples, failed to meet their guarantees in one or more forms of plant food. There were 51, or 3.3 per cent., deficient in nitrogen, 66, or 4.2 per cent., deficient in available phosphoric acid, and 123, or 7.9 per cent., deficient in water soluble potash. This class of materials averaged 2.10 per cent. nitrogen, 10.83 per cent. total phosphoric acid, 10.06 per cent. available phosphoric acid, .77 per cent. insoluble phosphoric acid and 5.71 per cent. potash. The average retail selling price was estimated as being \$34.08 a ton, compared with an average of \$31.94 estimated for 1927. Of the total number of samples 1,438 supplied potash in the muriate form, 21 as sulphate and 103 as both muriate and sulphate of potash. There were only 3 samples having the word "tobacco" as a part of the brand name, all of which supplied potash in the sulphate form. The 452 brands of Complete Fertilizers included 86 different formula grades, which were guaranteed to contain from 1 to 18.25 per cent. of nitrogen, from 4 to 30 per cent. of available phosphoric acid and from 1 to 15 per cent. of water soluble potash. The formula grades ranged from 1-8-5 to 18¼-30-15. Those grades of which the larger number of brands and samples were represented, together with the average selling price per ton, were as follows: 217 samples 1-9-4, \$27.64 a ton; 275 of 2-8-5, averaging \$30.04; 205 of 2-8-10, averaging \$34.34; 118 of 2-12-4, averaging \$31.51; 89 of 2-9-3, averaging \$30.30; 78 of 2-12-2, averaging \$30.24; 118 of 2-12-4, averaging \$31.51; 32 of 2-16-8, averaging \$40.65; 46 of 3-10-6, averaging \$35.85; 14 of 3-12-5, averaging \$33.99; 15 of 4-8-4, averaging \$41.70; 31 of 4-8-6, averaging \$37.71; 97 of 4-8-7, averaging \$38.28; 30 of 4-12-4, averaging \$55.24; 42 of 4-16-4, averaging \$43.96; 16 of 4-16-10, averaging \$50.01; 21 of 5-8-5, averaging \$45.91, and 13 of 5-8-7, averaging \$46.08. The highest values were represented by one brand of 8-7-6, retailing at \$100 and one of 18¼-30-15, selling at \$110 a ton.

The Ground Bone Fertilizers, supplying nitrogen and total phosphoric acid, included 60 official samples and 26 brands, registered by 20 companies, and were found upon analysis to average 3.44 per cent. nitrogen and 24.02 per cent. total phosphoric acid, selling at an average of \$55.49 a ton, compared with \$50.09 a ton, the average estimated for 1927. Eight, or 13.3 per cent., of the samples failed to meet their guarantees, 2, or 3.3 per cent., being deficient in nitrogen and 6, or 10.0 per cent., deficient in total phosphoric acid.

The Superphosphate Fertilizers, supplying phosphoric acid in an available form, were represented by 360 samples and 83 brands, registered by 54 companies. This class of Fertilizers for many years has been classified as Acidulated Phosphate Fertilizers or as Acid Phosphates, the product resulting from treating pulverized phosphate rock with sulphuric acid, which renders available the phosphoric acid combined with calcium in the product before

processing. Fertilizer Manufacturers and State Officials in conference to adopt more uniform names and definitions for the various types of fertilizer materials have recently agreed to designate Acidulated Phosphates or Acid Phosphate Fertilizers as Superphosphate Fertilizers. Therefore in this and in future reports this class of materials will be designated as Superphosphate Fertilizers. Of this class 34 samples, including 13 brands, were classified as Lime Phosphate Fertilizers so named because they are Superphosphate Fertilizers prepared for special purposes by the addition of lime products, which slightly reduce the content of phosphoric acid. The Superphosphate Fertilizers averaged 18.79 per cent. total phosphoric acid, 18.06 per cent. available phosphoric acid and .73 per cent. insoluble phosphoric acid, retailing at an average of \$21.51 a ton or at the rate of \$1.19 a unit for available phosphoric acid, compared with \$19.05 a ton and \$1.06 a unit, as estimated for the brands examined during the 1927 inspection. Four, or 1.2 per cent., of the samples of this class were deficient in available phosphoric acid. There were 16 brands guaranteed to contain 20 per cent. available phosphoric acid.

The Lime Phosphate Fertilizers had an average analysis of 15.39 per cent. total phosphoric acid, 13.80 per cent. available phosphoric acid, 1.59 per cent. insoluble phosphoric acid and retailed at an average of \$21.88 a ton, or at the rate of \$1.59 a unit for available phosphoric acid, as supplied by this class of materials. There were 3, or 8.8 per cent., of the samples which were deficient.

The class of Rock and Potash Fertilizers, supplying available phosphoric acid and water soluble potash, was represented by 174 samples and 57 brands, registered by 39 companies, and averaged in composition 12.02 per cent. available phosphoric acid and 5.77 per cent. potash. The retail selling values averaged \$26.46 a ton, compared with \$24.92 a ton, as estimated for the preceding season's brands. They were all guaranteed to contain 14 or more per cent. total units and 19, or 10.9 per cent., of the samples were found to be deficient, there being 6, or 3.5 per cent., deficient in available phosphoric acid and 14, or 8.1 per cent., deficient in potash. In 166 of the samples the potash was supplied in the muriate form and 8 samples contained potash in both muriate and sulphate forms.

The Miscellaneous Fertilizers included 135 official samples and 70 different brands, registered by 30 companies. Ten, or 7.4 per cent., of the samples failed to meet their guarantees in one or more forms of plant food which they were advertised to contain. There were 2, or 1.5 per cent., of the samples low in nitrogen and in total phosphoric acid and 6, or 4.4 per cent., were deficient in potash. The following materials with their average compositions and retail selling prices included in this class were as follows: Nitrate of Soda, 51 samples, averaging 15.53 per cent. nitrogen and \$66.41 a ton; Sulphate of Ammonia, 23 samples, averaging 20.90 per cent. nitrogen and \$73.02 a ton; Dried Fish, 1 sample containing 7.73 per cent. nitrogen; Tankage, 12 samples, averaging 6.57 per cent. nitrogen and \$54.68 a ton; Kainit, 4 samples, averaging 13.37 per cent. potash and \$19.67 a ton; Manure Salt, 1 sample containing 21.10 per cent. potash and reported as selling

at \$25.20 a ton; Muriate of Potash, 39 samples, averaging 50.68 per cent. potash and \$53.84 a ton; Sulphate of Potash, 1 sample, analyzing 48.48 per cent. potash and selling at \$60 a ton, and 3 unclassified miscellaneous materials, as will be noted in the table.

In the following pages will be found Acknowledgments; Table I, showing Number of Deficiencies in Each Class; Table II, Average Analyses and Retail Prices; Key to Tables, explaining the large tables which follow, showing results of chemical analyses in detail of each official sample received from the Agents, together with brand names and names of selling agents, guarantees for the several forms of plant food which they contained and retail selling prices; Table III, Complete Fertilizers; Table IV, Ground Bone Fertilizers; Table V, Superphosphate Fertilizers; Table VI, Rock and Potash Fertilizers, and Table VII, Miscellaneous Fertilizers.

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## ACKNOWLEDGMENTS

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Mr. V. B. Hausknecht, First Assistant Chemist, in charge of the Chemical Laboratory, had immediate supervision of the reception and analyses of the official samples, the approval of applications for registration and the issuing of licenses and the preparation of the Tables included in this Report. The microscopical examinations were made by H. E. Gensler, Assistant Chemist and Micro-Analyst, and the following Assistant Chemists performed the chemical analyses: G. J. Kuhlman, Jr., F. B. Williams, Claude R. Engle, Harold Y. Fisher, Joseph F. Bradley and Robert B. Kilborn. The samples were prepared for analysis by Myrle W. Copeland, Laboratory Assistant.

Table I—DEFICIENCIES

Class of Fertilizers	Number of Samples.	Deficient in Nitrogen.	Deficient in Available Phosphoric Acid.	Deficient in Potash
Complete Fertilizers .....	1562	51	66	123
Ground Bone Fertilizers .....	60	2	6*	.....
Superphosphate Fertilizers .....	326	.....	4	.....
Lime Phosphate Fertilizers .....	34	.....	3	.....
Rock and Potash Fertilizers .....	174	.....	6	14
Miscellaneous Fertilizers .....	135	2	2*	6
Total .....	2291	55	87	143

\*Total Phosphoric Acid.

Table II—AVERAGE ANALYSES

	Complete Fertilizers.	Ground Bone Fertilizers	Super-phosphate Fertilizers.*	Rock and Potash Fertilizers.
Total Nitrogen .....	2.10%	3.44%	.....	12.64%
Total Phosphoric Acid .....	10.83%	24.02%	18.79%	12.02%
Available Phosphoric Acid .....	10.06%	.....	18.06%	12.02%
Insoluble Phosphoric Acid .....	0.77%	.....	0.73%	0.62%
Potash .....	5.71%	.....	.....	5.77%
Selling Price .....	\$34.08	\$55.49	\$21.51	\$26.46
Average Selling Price 1927 .....	\$31.94	\$50.09	\$19.05	\$24.92

\*Excluding Lime Phosphates.



## KEY TO TABLES

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The following tables include the detailed results of chemical analyses of each sample. All samples were given a chemist's number as shown in the extreme left and right hand columns and are grouped in alphabetical order of manufacturers and brand names. Each class is shown in separate tables and the following information will serve as a key to these tables:

The asterisk (\*) indicates the cases where total nitrogen, available phosphoric acid and total potash are deficient to the extent of .2 per cent. or more below their respective guarantees. In cases where the guarantees are .5 per cent. or less the deficiencies noted are where the amount is .1 per cent. or more below the guarantees.

Order of results of analysis: Total Nitrogen found and Guaranteed, Total Phosphoric Acid found and guaranteed: Available Phosphoric Acid found and guaranteed: Insoluble Phosphoric Acid found and guaranteed; Total Potash found and guaranteed and Potash as Muriate and as Sulphate.

To determine the formula of any brand, as guaranteed, multiply Total Nitrogen guaranteed by 1.2158 to obtain Ammonia and then use this figure and the guarantees for Available Phosphoric Acid and Total Potash. For example, Nitrogen guarantee equals .82% ( $.82 \times 1.2158 = 1\%$ ). Ammonia equals 1%; Available Phosphoric Acid, 8%, Potash, 1%. Formula therefore is 1-8-1.

Table III. Complete Fertilizers, furnishing Nitrogen, Phosphoric Acid and Potash.

Table IV, Ground Bone Fertilizers, furnishing Nitrogen and Total Phosphoric Acid.

Table V, Superphosphate Fertilizers furnishing available phosphoric acid.

Table VI, Rock and Potash Fertilizers, furnishing Phosphoric Acid and Potash.

Table VII, Miscellaneous Fertilizers, including Nitrate of Soda, Sulphate of Ammonia, Dried Fish, Tankage, Kainit, Manure Salt, Muriate of Potash, Sulphate of Potash and 3 unclassified fertilizers.

## TABLE III—COMPLETE

Furnishing Nitrogen, Phosphoric

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.		
6285	Acme Fertilizer.	H. C. Berriets Sons, Somerset.
5170	Acme Fertilizer.	T. R. Bolton, Cochranston.
7055	Acme Fertilizer.	Ewing & Kinsloe, Newton Hamilton.
7351	Acme Fertilizer.	Farmers Exchange, Indiana.
5348	Acme Fertilizer.	Fryberg Roller Mills, Fryberg.
6147	Acme Fertilizer.	Graham Brothers, Darlington.
6901	Acme Fertilizer.	Kelly & Shoemaker, Littlestown.
6943	Acme Fertilizer.	Linesville Coal, Lime & Cement Co., Linesville.
7418	Acme Fertilizer.	G. B. Miller, Kossuth.
7528	Acme Fertilizer.	Minner & Lamb, New Wilmington.
7094	Acme Fertilizer.	Sharpsburg Hardware Co., Sharpsburg.
6829	Acme Fertilizer.	H. A. Snyder, Strawberry Ridge.
5657	Acme Fertilizer.	W. B. Winey & Son, Middleburg.
5930	Agrico Fertilizer for Corn.	Jacob Groh, Liekdale.
6753	Agrico Fertilizer for Corn.	J. E. Jackson, Everett.
6067	Agrico Fertilizer for Corn.	Chas. McDonell, Mansfield.
5995	Agrico Fertilizer for Corn.	J. Harvey Miller, Ligonier.
7322	Agrico Fertilizer for Corn.	Amandus Wagner, Kunkletown.
5638	Agrico Fertilizer for Corn.	John P. Walter, Vicksburg.
6781	Agrico Fertilizer for Grain.	T. A. DeLong, Loganton.
5312	Agrico Fertilizer for Grain.	Dillsburg Grain & Milling Co., Dillsburg.
5516	Agrico Fertilizer for Grain.	D. K. Ferster & Son, Richfield.
5576	Agrico Fertilizer for Grain.	Gates Hardware, Grampion.
7022	Agrico Fertilizer for Grain.	James M. Hix, Hamburg.
6750	Agrico Fertilizer for Grain.	J. E. Jackson, Everett.
6899	Agrico Fertilizer for Grain.	Kelly & Shoemaker, Littlestown.
6066	Agrico Fertilizer for Grain.	Chas. McDonell, Mansfield.
6575	Agrico Fertilizer for Grain.	J. H. McWhirter, Mercer.
7239	Agrico Fertilizer for Grain.	Passmore Supply Co., Oxford.
6490	Agrico Fertilizer for Grain.	E. J. Seymour, Patton.
7467	Agrico Fertilizer for Grain.	L. G. Williams, St. Johns.
5670	Agrico Fertilizer for Grain.	C. G. Yost, McEwensville.
6848	Agrico Fertilizer for Grain.	C. G. Yost, McEwensville.
5072	Agrico Fertilizer for Potatoes.	T. A. DeLong, Loganton.
5311	Agrico Fertilizer for Potatoes.	Dillsburg Grain & Milling Co., Dillsburg.
6140	Agrico Fertilizer for Potatoes.	H. J. Klinger & Co., Butler.
5875	Agrico Fertilizer for Potatoes.	Passmore Supply Co., Oxford.
6491	Agrico Fertilizer for Potatoes.	E. J. Seymour, Patton.
5188	Agrico Fertilizer for Potatoes.	Union Coal & Supply Co., Wattsburg.
5636	Agrico Fertilizer for Potatoes.	John P. Walter, Vicksburg.
6052	Agrico Fertilizer for Truck.	W. B. Beam, Paxtonia.
5635	Agrico Fertilizer for Truck.	John P. Walter, Vicksburg.
6287	Baker's Special Fertilizer.	H. C. Berriets Sons, Somerset.
5292	Baker's Special Fertilizer.	Gump & Son, Everett.
6744	Baker's Special Fertilizer.	H. T. Gump & Co., Everett.
7497	Baker's Special Fertilizer.	Waite & Burnham, Tyrone.
6050	Bowker's Challenge Fertilizer.	W. B. Beam, Paxtonia.
6051	Bowker's Challenge Fertilizer.	W. B. Beam, Paxtonia.
7513	Bowker's Challenge Fertilizer.	M. Beshlin, Warren.
6845	Bowker's Challenge Fertilizer.	R. S. Blaine, Turbotville.
5466	Bowker's Challenge Fertilizer.	B. F. Fink, Huntingdon.
6328	Bowker's Challenge Fertilizer.	W. B. Kirkendall, Nescopeck.
6417	Bowker's Lawn and Garden Dressing.	C. L. Ayers, Cannonsburg.
5785	Bowker's Lawn and Garden Dressing.	H. M. Spalding's Sons, Troy.
6846	Bowker's Square Brand Fertilizer.	R. S. Blaine, Turbotville.
5307	Bowker's Square Brand Fertilizer.	B. F. Fink, Huntingdon.
6657	Bowker's Square Brand Fertilizer.	Johnson-Byer Co., Rural Valley.
6936	Bowker's Square Brand Fertilizer.	Johnson-Byer Co., Rural Valley.
6327	Bowker's Square Brand Fertilizer.	W. B. Kirkendall, Nescopeck.
6146	Bowker's Square Brand Fertilizer.	Monaca Roller Mills, Monaca.
6660	Bowker's Stock Bridge Hill and Drill Fertilizer.	Johnson-Byer Co., Rural Valley.
6326	Bowker's Stock Bridge Hill and Drill Fertilizer.	W. B. Kirkendall, Nescopeck.

## FERTILIZERS.

## Acid and Potash

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
0.92	0.82	10.14	9.50	9.04	9.00	1.10	0.50	3.90	4.00	3.90	....	28.00	6285
0.92	0.82	9.02	9.50	*8.66	9.00	0.36	0.50	4.02	4.00	4.02	....	28.25	5170
0.95	0.82	10.72	9.50	9.46	9.00	1.26	0.50	4.16	4.00	4.16	....	27.00	7055
1.10	0.82	10.33	9.50	9.43	9.00	0.90	0.50	4.12	4.00	4.12	....	31.00	7351
0.83	0.82	10.15	9.50	9.27	9.00	0.88	0.50	4.03	4.00	4.03	....	28.20	5348
0.92	0.82	9.86	9.50	9.00	9.00	0.86	0.50	4.12	4.00	4.12	....	28.00	6147
0.95	0.82	10.60	9.50	9.52	9.00	1.08	0.50	3.88	4.00	3.88	....	24.00	6901
1.01	0.82	10.33	9.50	9.39	9.00	0.94	0.50	4.31	4.00	4.31	....	22.50	6943
1.01	0.82	9.89	9.50	9.21	9.00	0.68	0.50	4.16	4.00	4.16	....	27.00	7418
0.98	0.82	9.90	9.50	9.04	9.00	0.86	0.50	4.13	4.00	4.13	....	26.20	7528
0.89	0.82	9.95	9.50	9.33	9.00	0.62	0.50	4.17	4.00	4.17	....	35.00	7094
0.95	0.82	10.36	9.50	9.40	9.00	0.96	0.50	4.10	4.00	4.10	....	24.75	6829
0.78	0.82	10.41	9.50	9.59	9.00	0.82	0.50	4.12	4.00	4.12	....	26.00	5657
2.55	2.47	11.10	10.50	10.04	10.00	1.06	0.50	6.04	6.00	6.04	....	38.00	5930
2.60	2.47	11.62	10.50	10.62	10.00	1.00	0.50	5.97	6.00	5.97	....	38.00	6753
2.63	2.47	11.05	10.50	10.37	10.00	0.68	0.50	6.23	6.00	6.23	....	38.00	6067
2.64	2.47	10.77	10.50	10.17	10.00	0.60	0.50	6.27	6.00	6.27	....	30.00	5995
2.66	2.47	11.28	10.50	10.44	10.00	0.84	0.50	6.00	6.00	6.00	....	....	7322
2.60	2.47	11.15	10.50	10.19	10.00	0.96	0.50	6.35	6.00	6.35	....	36.00	5638
1.71	1.65	13.78	12.50	12.86	12.00	0.92	0.50	4.00	4.00	4.00	....	33.00	6781
1.70	1.65	13.43	12.50	12.27	12.00	1.16	0.50	4.17	4.00	4.17	....	32.00	5312
1.68	1.65	13.23	12.50	12.01	12.00	1.22	0.50	4.25	4.00	4.25	....	43.70	5516
1.73	1.65	13.14	12.50	12.38	12.00	0.76	0.50	4.03	4.00	4.03	....	39.00	5576
1.79	1.65	13.74	12.50	12.66	12.00	1.08	0.50	4.11	4.00	3.60	0.51	....	7022
1.76	1.65	13.98	12.50	12.96	12.00	1.02	0.50	4.16	4.00	3.60	0.56	33.00	6750
1.74	1.65	13.50	12.50	12.44	12.00	1.06	0.50	4.03	4.00	3.60	0.43	31.00	6899
1.77	1.65	13.27	12.50	12.13	12.00	1.14	0.50	4.33	4.00	4.33	....	35.00	6066
1.67	1.65	13.18	12.50	12.40	12.00	0.78	0.50	4.12	4.00	4.12	....	38.00	6575
1.73	1.65	13.47	12.50	12.31	12.00	1.16	0.50	4.21	4.00	4.21	....	33.00	7239
1.71	1.65	13.39	12.50	12.53	12.00	0.86	0.50	4.20	4.00	4.20	....	34.00	6490
1.97	1.65	13.67	12.50	12.97	12.00	0.70	0.50	4.35	4.00	4.35	....	34.00	7467
1.72	1.65	13.14	12.50	12.00	12.00	1.14	0.50	4.48	4.00	4.48	....	32.30	5670
1.77	1.65	13.55	12.50	12.69	12.00	0.86	0.50	4.09	4.00	3.60	0.49	33.00	6848
3.47	3.29	9.11	8.50	8.45	8.00	0.66	0.50	6.43	6.00	6.43	....	38.60	5072
3.36	3.29	8.85	8.50	8.11	8.00	0.74	0.50	6.31	6.00	6.31	....	37.50	5311
3.34	3.29	8.85	8.50	8.35	8.00	0.50	0.50	6.98	6.00	6.98	....	44.00	6140
3.43	3.29	9.30	8.50	8.22	8.00	1.08	0.50	6.18	6.00	6.18	....	38.50	5875
3.50	3.29	9.40	8.50	8.58	8.00	0.82	0.50	6.33	6.00	6.33	....	38.00	6491
3.34	3.29	9.01	8.50	8.37	8.00	0.64	0.50	6.88	6.00	6.88	....	41.50	5188
3.30	3.29	9.06	8.50	8.48	8.00	0.58	0.50	6.14	6.00	6.14	....	38.00	5636
*3.62	4.11	10.42	10.50	10.00	10.00	0.42	0.50	5.13	5.00	5.13	....	42.00	6052
4.26	4.11	11.01	10.50	10.47	10.00	0.54	0.50	5.24	5.00	5.24	....	41.00	5635
1.04	0.82	10.28	9.50	9.50	9.00	0.78	0.50	*3.77	4.00	3.77	....	28.00	6287
0.83	0.82	10.10	9.50	9.08	9.00	1.02	0.50	3.89	4.00	3.89	....	29.00	5292
0.89	0.82	10.55	9.50	9.25	9.00	1.30	0.50	4.14	4.00	4.14	....	32.00	6744
1.02	0.82	10.63	9.50	9.75	9.00	0.88	0.50	4.25	4.00	4.25	....	27.00	7497
1.68	1.65	8.89	8.50	8.17	8.00	0.72	0.50	9.91	10.00	9.91	....	34.70	6050
1.79	1.65	8.88	8.50	8.04	8.00	0.84	0.50	10.31	10.00	10.31	....	....	6051
1.73	1.65	9.45	8.50	8.83	8.00	0.62	0.50	10.15	10.00	10.15	....	45.00	7513
1.90	1.65	9.34	8.50	7.92	8.00	1.42	0.50	9.94	10.00	9.94	....	34.00	6845
1.72	1.65	8.95	8.50	8.13	8.00	0.82	0.50	10.48	10.00	10.48	....	32.40	5466
1.60	1.65	8.93	8.50	8.25	8.00	0.68	0.50	10.04	10.00	10.04	....	34.35	6328
4.20	4.11	8.69	8.50	8.07	8.00	0.62	0.50	*5.25	7.00	5.25	....	70.00	6417
4.34	4.11	8.71	8.50	8.25	8.00	0.46	0.50	7.51	7.00	7.51	....	60.00	5785
1.76	1.65	9.07	8.50	8.11	8.00	0.96	0.50	5.14	5.00	5.14	....	29.50	6846
1.78	1.65	8.90	8.50	8.02	8.00	0.88	0.50	4.86	5.00	4.86	....	28.00	5307
1.66	1.65	9.08	8.50	8.46	8.00	0.62	0.50	4.95	5.00	4.95	....	34.00	6657
1.65	1.65	9.64	8.50	9.00	8.00	0.64	0.50	4.87	5.00	4.87	....	30.60	6936
1.75	1.65	8.74	8.50	8.08	8.00	0.66	0.50	5.40	5.00	5.40	....	29.65	6327
1.86	1.65	9.03	8.50	8.17	8.00	0.86	0.50	5.05	5.00	5.05	....	33.00	6146
3.36	3.30	9.31	8.50	8.73	8.00	0.58	0.50	7.08	7.00	7.08	....	50.00	6660
3.55	3.29	8.95	8.50	8.15	8.00	0.80	0.50	7.47	7.00	7.47	....	37.45	6326

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6145	Bowker's Stock Bridge Hill and Drill Fertilizer	Monaca Roller Mills, Monaca
6053	Bowker's Sure Crop Fertilizer	W. B. Beam, Paxtonia
7512	Bowker's Sure Crop Fertilizer	M. Beshlin, Warren
5674	Bowker's Sure Crop Fertilizer	R. S. Blaine, Turbotville
6841	Bowker's Sure Crop Fertilizer	R. S. Blaine, Turbotville
7072	Bowker's Sure Crop Fertilizer	Cash Feed & Supply Co., Huntingdon
5305	Bowker's Sure Crop Fertilizer	B. F. Fink, Huntingdon
5703	Bowker's Sure Crop Fertilizer	C. E. Gobrecht, Hanover
6593	Bowker's Sure Crop Fertilizer	B. V. Haefner, Wexford
6681	Bowker's Sure Crop Fertilizer	C. S. Hunter Co., Washington
7260	Bowker's Sure Crop Fertilizer	C. S. Hunter Co., Washington
6658	Bowker's Sure Crop Fertilizer	Johnson-Byer Co., Rural Valley
6935	Bowker's Sure Crop Fertilizer	Johnson-Byer Co., Rural Valley
6550	Bowker's Sure Crop Fertilizer	W. H. Lenhard, Phoenixville
5786	Bowker's Sure Crop Fertilizer	H. M. Spalding's Sons, Troy
5458	Champion Fertilizer	J. B. Andersons Sons, Shickshinny
6415	Champion Fertilizer	C. L. Ayers, Cannonsburg
7353	Champion Fertilizer	Farmers' Exchange, Indiana
6159	Champion Fertilizer	J. J. Kennedy & Sons, Zelenople
7573	Champion Fertilizer	J. H. McWhirter, Mercer
7417	Champion Fertilizer	G. B. Miller, Kossuth
6646	Champion Fertilizer	H. B. Rosenberger, Doylestown
5187	Champion Fertilizer	Union Coal & Supply Co., Wattsburg
6281	Climax Fertilizer	H. C. Beerits Sons, Somerset
7541	Climax Fertilizer	Farmers Supply Co., New Castle
6354	Climax Fertilizer	Howard C. Hobert, Warrington
6329	Climax Fertilizer	W. B. Kirkendall, Nescopeck
6139	Climax Fertilizer	H. J. Klingler & Co., Butler
5751	Climax Fertilizer	Roy H. Treasure, Benton
5395	E. Frank Coe's Antler Fertilizer	George A. Konkle, Montoursville
6655	E. Frank Coe's Antler Fertilizer	W. P. Lauster, Rural Valley
6938	E. Frank Coe's Antler Fertilizer	W. P. Lauster, Rural Valley
7468	E. Frank Coe's Antler Fertilizer	L. G. Williams, St. Johns
5568	E. Frank Coe's Arrow Fertilizer	Abington Lumber Co., Dalton
5394	E. Frank Coe's Arrow Fertilizer	George A. Konkle, Montoursville
5569	E. Frank Coe's Columbian Fertilizer	Abington Lumber Co., Dalton
5721	E. Frank Coe's Columbian Fertilizer	L. T. Lardley, Carmichaels
6654	E. Frank Coe's Columbian Fertilizer	W. P. Lauster, Rural Valley
6939	E. Frank Coe's Columbian Fertilizer	W. P. Lauster, Rural Valley
6624	E. Frank Coe's Columbian Fertilizer	The I. W. Scott Co., Pittsburgh
6010	E. Frank Coe's Gold Brand Fertilizer	John A. Fraser, Montrose
6625	E. Frank Coe's Gold Brand Fertilizer	The I. W. Scott Co., Pittsburgh
5570	E. Frank Coe's Red Brand Fertilizer	Abington Lumber Co., Dalton
6623	E. Frank Coe's Red Brand Fertilizer	The I. W. Scott Co., Pittsburgh
7079	E. Frank Coe's Red Brand Fertilizer	The I. W. Scott Co., Pittsburgh
6002	Early Trucker Fertilizer	W. S. Heath & Son, Great Bend
5542	Early Trucker Fertilizer	George Khale, South Oil City
5986	Early Trucker Fertilizer	Rossmoyne Flouring Mills, Smicksburg
6847	Farmers' Friend Fertilizer	R. S. Blaine, Turbotville
5131	Farmers' Friend Fertilizer	Chambersburg Grain Co., Chambersburg
5923	Farmers' Friend Fertilizer	Martin Christman, Leighton
6778	Farmers' Friend Fertilizer	T. A. DeLong, Loganton
7354	Farmers' Friend Fertilizer	Farmers' Exchange, Indiana
7020	Farmers' Friend Fertilizer	James M. Hix, Hamburg
6946	Farmers' Friend Fertilizer	Linesville Coal, Lime & Cement Co., Linesville
7575	Farmers' Friend Fertilizer	J. H. McWhirter, Mercer
6188	Farmers' Friend Fertilizer	Minner & Lamb, New Wilmington
5750	Farmers' Friend Fertilizer	Roy H. Treasure, Benton
7472	Farmers' Friend Fertilizer	Chas. L. Tressler, Conyngham
5517	Fish Brand	D. K. Ferster & Son, Richfield
6351	Fish Brand	W. H. Lenhard, Phoenixville
6830	Fish Brand	H. A. Snyder, Strawberry Ridge
6284	Gladiator Fertilizer	H. C. Beerits Sons, Somerset
5132	Gladiator Fertilizer	Chambersburg Grain Co., Chambersburg
5925	Gladiator Fertilizer	Martin Christman, Leighton

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
3.35	3.29	8.98	8.50	8.32	8.00	0.66	0.50	7.01	7.00	7.01	....	40.50	6145
0.94	0.82	10.41	9.50	9.75	9.00	0.66	0.50	4.19	4.00	4.19	....	....	6053
1.06	0.82	10.12	9.50	9.46	9.00	0.66	0.50	4.76	4.00	4.76	....	36.00	7512
0.86	0.82	10.14	9.50	9.36	9.00	0.78	0.50	4.28	4.00	4.28	....	26.50	5674
1.08	0.82	10.24	9.50	9.14	9.00	1.10	0.50	4.10	4.60	4.10	....	26.50	6841
0.96	0.82	10.55	9.50	9.29	9.00	1.26	0.50	4.48	4.00	4.48	....	28.00	7072
0.83	0.82	10.28	9.50	9.30	9.00	0.98	0.50	4.18	4.00	4.18	....	25.00	5305
1.00	0.82	10.00	9.50	9.08	9.00	0.92	0.50	4.54	4.00	4.54	....	27.00	5703
0.83	0.82	10.12	9.50	9.36	9.00	0.76	0.50	4.00	4.00	4.00	....	32.00	6593
1.01	0.82	9.95	9.50	9.35	9.00	0.60	0.50	4.04	4.00	4.04	....	27.20	6681
1.02	0.82	10.23	9.50	9.37	9.00	0.86	0.50	4.31	4.00	3.80	0.51	26.20	7260
1.05	0.82	9.95	9.50	9.57	9.00	0.38	0.50	4.13	4.00	4.13	....	28.50	6658
1.01	0.82	9.48	9.50	8.90	9.00	0.58	0.50	4.13	4.00	4.13	....	28.00	6935
0.87	0.82	10.04	9.50	9.02	9.00	1.02	0.50	4.02	4.00	4.02	....	29.00	6550
0.87	0.82	9.95	9.50	9.11	9.00	0.84	0.50	4.56	4.00	4.56	....	29.00	5786
1.77	1.65	8.88	8.50	8.06	8.00	0.82	0.50	4.98	5.00	4.98	....	30.00	5458
1.71	1.65	9.21	8.50	8.87	8.00	0.34	0.50	5.12	5.00	5.12	....	31.60	6415
1.74	1.65	9.44	8.50	8.60	8.00	0.84	0.50	5.36	5.00	5.36	....	34.50	7353
1.74	1.65	8.81	8.50	8.11	8.00	0.70	0.50	5.06	5.00	5.06	....	32.00	6159
1.70	1.65	9.69	8.50	8.83	8.00	0.86	0.50	5.91	5.00	5.91	....	36.00	7573
1.72	1.65	8.95	8.50	8.43	8.00	0.52	0.50	5.04	5.00	5.04	....	31.00	7417
1.77	1.65	9.11	8.50	8.53	8.00	0.58	0.50	5.04	5.00	5.04	....	32.00	6646
1.66	1.65	8.47	8.50	7.89	8.00	0.58	0.50	5.12	5.00	5.12	....	33.50	5187
2.42	2.47	11.61	10.50	10.55	10.00	1.06	0.50	*5.76	6.00	5.76	....	36.00	6281
2.73	2.47	11.30	10.50	10.32	10.00	0.98	0.50	6.12	6.00	5.70	0.42	38.00	7541
2.77	2.47	10.92	10.50	10.26	10.00	0.66	0.50	6.07	6.00	6.07	....	31.50	6354
2.72	2.47	11.51	10.50	10.15	10.00	1.36	0.50	6.22	6.00	6.22	....	35.05	6329
2.62	2.47	11.48	10.50	10.74	10.00	0.74	0.50	6.02	6.00	6.02	....	42.00	6139
2.69	2.47	11.57	10.50	10.17	10.00	1.40	0.50	6.30	6.00	6.30	....	35.50	5751
0.85	0.82	10.08	9.50	9.22	9.00	0.86	0.50	3.98	4.00	3.98	....	27.75	5395
0.98	0.82	9.64	9.50	9.20	9.00	0.44	0.50	4.05	4.00	4.05	....	27.80	6655
0.94	0.82	10.08	9.50	9.36	9.00	0.72	0.50	3.91	4.00	3.91	....	27.00	6928
0.98	0.82	10.20	9.50	9.58	9.00	0.62	0.50	4.71	4.00	4.71	....	27.00	7468
1.59	1.65	9.24	8.50	8.32	8.00	0.92	0.50	10.70	10.00	10.70	....	42.00	5568
1.70	1.65	9.27	8.50	8.31	8.00	0.96	0.50	9.97	10.00	9.97	....	35.50	5394
1.71	1.65	9.15	8.50	8.39	8.00	0.76	0.50	5.44	5.00	5.44	....	36.50	5569
1.58	1.65	9.57	8.50	8.57	8.00	1.00	0.50	5.19	5.00	5.19	....	30.35	5721
1.66	1.65	8.80	8.50	8.24	8.00	0.56	0.50	5.05	5.00	5.05	....	31.00	6654
1.65	1.65	8.75	8.50	8.13	8.00	0.62	0.50	4.85	5.00	4.85	....	30.50	6939
1.91	1.65	9.57	8.50	8.87	8.00	0.70	0.50	5.23	5.00	5.23	....	35.00	6624
2.76	2.47	11.67	10.50	10.07	10.00	1.60	0.50	6.21	6.00	6.21	....	....	6010
2.67	2.47	10.97	10.50	10.11	10.00	0.86	0.50	6.59	6.00	6.59	....	40.00	6625
3.37	3.29	8.95	8.50	8.19	8.00	0.76	0.50	7.52	7.00	7.52	....	45.00	5570
3.22	3.29	9.13	8.50	8.39	8.00	0.74	0.50	*6.41	7.00	6.41	....	43.00	6623
3.31	3.29	8.88	8.50	8.26	8.60	0.62	0.50	*6.27	7.00	6.27	....	37.85	7079
4.28	4.11	9.12	8.50	8.40	8.60	0.72	0.50	5.98	5.00	5.98	....	40.00	6002
*3.68	4.11	9.49	8.50	8.97	8.00	0.52	0.50	4.85	5.00	4.85	....	45.00	5542
4.37	4.11	8.93	8.50	8.43	8.00	0.50	0.50	4.85	5.60	4.85	....	36.00	5986
1.81	1.65	13.73	12.50	12.55	12.60	1.18	0.50	4.15	4.00	4.15	....	31.50	6847
1.94	1.65	13.27	12.50	12.17	12.00	1.10	0.50	4.21	4.00	4.21	....	33.75	5131
1.79	1.65	13.67	12.50	12.57	12.00	1.10	0.50	4.09	4.00	4.09	....	26.90	5923
1.76	1.65	13.27	12.50	12.27	12.00	1.00	0.50	4.07	4.00	4.07	....	32.00	6778
1.77	1.65	14.04	12.50	12.90	12.00	1.14	0.50	4.31	4.00	3.70	0.61	36.75	7354
1.75	1.65	13.61	12.50	12.47	12.00	1.14	0.50	4.09	4.00	4.09	....	....	7020
1.81	1.65	13.11	12.50	12.09	12.00	1.02	0.50	4.03	4.00	4.03	....	....	6946
1.76	1.65	13.65	12.50	12.93	12.00	0.72	0.50	4.60	4.00	4.60	....	38.50	7575
1.92	1.65	12.46	12.50	11.92	12.00	0.54	0.50	4.58	4.00	4.58	....	36.50	6188
1.75	1.65	13.42	12.50	12.46	12.00	0.96	0.50	4.22	4.00	4.22	....	32.00	5750
1.78	1.65	13.36	12.50	12.42	12.00	0.94	0.50	4.32	4.00	4.32	....	....	7472
1.68	1.65	10.55	9.50	9.33	9.00	1.22	0.50	3.16	3.00	2.70	0.46	32.00	5517
1.79	1.65	10.63	9.50	9.55	9.00	1.08	0.50	3.16	3.00	3.16	....	31.00	6551
1.74	1.65	10.84	9.50	9.40	9.00	1.44	0.50	3.09	3.00	3.09	....	27.00	6830
3.24	3.29	9.35	8.50	8.41	8.00	0.94	0.50	*6.74	7.00	6.74	....	38.00	6284
3.55	3.29	8.74	8.50	8.18	8.00	0.56	0.50	7.11	7.00	5.30	1.81	40.00	5132
3.51	3.29	9.21	8.50	8.41	8.00	0.80	0.50	7.00	7.00	7.00	....	32.65	5925

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6353	Gladiator Fertilizer.....	Howard C. Hobert, Warrington.....
6944	Gladiator Fertilizer.....	Linesville Coal, Lime & Cement Co., Linesville...
6096	Great Planet Double Strength Fertilizer.....	L. A. Glessman, Conneautville.....
7075	Great Planet Double Strength Fertilizer.....	Gregory & Kocher, Petersburg.....
6047	Great Planet Double Strength Fertilizer.....	B. F. Horting, Newport.....
7529	Great Planet Double Strength Fertilizer.....	Minner & Lamb, New Wilmington.....
6875	Great Planet Double Strength Fertilizer.....	W. E. Spriggle, Richfield.....
5658	Great Planet Double Strength Fertilizer.....	W. B. Winey & Son, Middleburg.....
5435	Hess Laurel Fertilizer.....	Wm. Balthaser, Bernville.....
6190	Hess Laurel Fertilizer.....	J. W. Herman, Beaver Springs.....
6876	Hess Laurel Fertilizer.....	J. W. Herman, Beaver Springs.....
7471	Hess Laurel Fertilizer.....	Chas. L. Tressler, Conyngham.....
6877	Hess Little Treasure Fertilizer.....	J. W. Herman, Beaver Springs.....
5285	Hess Little Treasure Fertilizer.....	J. E. Jackson, Everett.....
6752	Hess Little Treasure Fertilizer.....	J. E. Jackson, Everett.....
6391	Hess Little Treasure Fertilizer.....	W. A. Yost, New Ringgold.....
6309	Hess Money Maker Fertilizer.....	Harold Serfoss, Bowmanstown.....
5436	Hess Possum Brand Fertilizer.....	Wm. Balthaser, Bernville.....
6189	Hess Possum Brand Fertilizer.....	J. W. Herman, Beaver Springs.....
6310	Hess Possum Brand Fertilizer.....	Harold Serfoss, Bowmanstown.....
6718	Hess Possum Brand Fertilizer.....	Harold Serfoss, Bowmanstown.....
7284	Hess Possum Brand Fertilizer.....	H. E. Shipman, Muncy Valley.....
5171	Homestead Fertilizer.....	T. R. Bolton, Cochran.....
6945	Homestead Fertilizer.....	Linesville Coal, Lime & Cement Co., Linesville...
5821	KKK Kangaroo Komplete Kompond.....	Bradford Co., Center Hall.....
7073	KKK Kangaroo Komplete Kompond.....	Cash Feed & Supply Co., Huntingdon.....
7526	KKK Kangaroo Komplete Kompond.....	Harvey Detwiler, Chester Springs.....
5863	KKK Kangaroo Komplete Kompond.....	Franklin G. Evans, Kelton.....
5060	KKK Kangaroo Komplete Kompond.....	John Greenleaf, Quarryville.....
5669	KKK Kangaroo Komplete Kompond.....	C. G. Yost, McEwensville.....
6555	Lister's Early Bird Fertilizer.....	Simpson Brothers, Norristown.....
6434	Lister's G Brand Fertilizer.....	Chas. A. B. Bower, Montgomery.....
5252	Lister's G Brand Fertilizer.....	Wm. H. Fritz, Berwyn.....
5642	Lister's G Brand Fertilizer.....	Mifflinburg Milling Co., Mifflinburg.....
6586	Lister's G Brand Fertilizer.....	Morrow & Buxton, Valencia.....
6831	Lister's G Brand Fertilizer.....	Wm. Savidge, Turbotville.....
5327	Lister's G Brand Fertilizer.....	W. H. Stock, New Oxford.....
7090	Lister's G Brand Fertilizer.....	R. J. Toepfer, Tarentum.....
6436	Lister's Golden Crown Fertilizer.....	Chas. A. B. Bower, Montgomery.....
5660	Lister's Golden Crown Fertilizer.....	Herman & Wetzel, Selinsgrove.....
6970	Lister's Golden Crown Fertilizer.....	Herman & Wetzel, Selinsgrove.....
5997	Lister's Golden Crown Fertilizer.....	J. Harvey Miller, Ligonier.....
6583	Lister's Golden Crown Fertilizer.....	Morrow & Buxton, Valencia.....
6130	Lister's Golden Crown Fertilizer.....	R. K. Yoder, Belleville.....
7212	Lister's Golden Crown Fertilizer.....	R. K. Yoder, Belleville.....
6433	Lister's Harvest Queen Fertilizer.....	Chas. A. B. Bower, Montgomery.....
7149	Lister's Harvest Queen Fertilizer.....	C. E. Gobrecht, Hanover.....
5994	Lister's Harvest Queen Fertilizer.....	J. Harvey Miller, Ligonier.....
6581	Lister's Harvest Queen Fertilizer.....	Morrow & Buxton, Valencia.....
5811	Lister's Harvest Queen Fertilizer.....	Reed Estate, Philipsburg.....
7028	Lister's Harvest Queen Fertilizer.....	Robinhold Hardware Store, Hamburg.....
6832	Lister's Harvest Queen Fertilizer.....	Wm. Savidge, Turbotville.....
6489	Lister's Harvest Queen Fertilizer.....	E. J. Seymour, Patton.....
5328	Lister's Harvest Queen Fertilizer.....	W. H. Stock, New Oxford.....
7091	Lister's Harvest Queen Fertilizer.....	R. J. Toepfer, Tarentum.....
6437	Lister's Sovereign Fertilizer.....	Chas. A. B. Bower, Montgomery.....
7074	Lister's Sovereign Fertilizer.....	Gregory & Kocher, Petersburg.....
6887	Lister's Sovereign Fertilizer.....	Herman & Wetzel, Selinsgrove.....
5641	Lister's Sovereign Fertilizer.....	Mifflinburg Milling Co., Mifflinburg.....
6585	Lister's Sovereign Fertilizer.....	Morrow & Buxton, Valencia.....
7216	Lister's Sovereign Fertilizer.....	R. K. Yoder, Belleville.....
6582	Lister's Squirrel Brand Fertilizer.....	Morrow & Buxton, Valencia.....
6330	Lister's Squirrel Brand Fertilizer.....	W. H. Stock, New Oxford.....
6129	Lister's Squirrel Brand Fertilizer.....	R. K. Yoder, Belleville.....
7213	Lister's Squirrel Brand Fertilizer.....	R. K. Yoder, Belleville.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
3.48	3.29	8.62	8.50	8.16	8.00	0.46	0.50	7.45	7.00	7.15	....	34.50	6353
3.21	3.29	8.38	8.50	7.88	8.00	0.50	0.50	7.15	7.00	7.15	....	40.00	6944
1.85	1.65	16.80	16.50	15.00	16.00	0.80	0.50	8.94	8.00	8.94	....	44.95	6096
1.77	1.65	16.91	16.50	16.45	16.00	0.46	0.50	8.05	8.00	8.05	....	44.00	7075
1.75	1.65	17.60	16.50	17.18	16.00	0.42	0.50	8.16	8.00	8.16	....	39.80	6047
1.75	1.65	17.76	16.50	16.74	16.00	1.02	0.50	8.00	8.00	8.00	....	40.40	7525
1.70	1.65	17.35	16.50	16.89	16.00	0.46	0.50	8.08	8.00	8.08	....	39.80	6876
1.72	1.65	17.14	16.50	16.68	16.00	0.46	0.50	8.16	8.00	8.16	....	10.00	5658
1.80	1.65	9.11	8.50	8.01	8.00	1.10	0.50	5.21	5.00	5.21	....	30.00	5435
1.78	1.65	9.21	8.50	8.21	8.00	1.00	0.50	5.01	5.00	5.01	....	30.00	6190
1.72	1.65	9.59	8.50	8.61	8.00	0.98	0.50	4.91	5.00	4.91	....	29.50	6876
1.70	1.65	9.21	8.50	8.71	8.00	0.50	0.50	5.07	5.00	5.07	....	....	7471
0.95	0.82	10.20	9.50	9.00	9.00	1.20	0.50	3.85	4.00	3.85	....	26.00	6877
0.90	0.82	10.49	9.50	9.79	9.00	0.70	0.50	4.08	4.00	4.08	....	37.50	5285
0.87	0.82	9.87	9.50	8.83	9.00	1.04	0.50	4.15	4.00	4.15	....	28.00	6752
0.91	0.82	10.33	9.50	9.17	9.00	1.16	0.50	4.27	4.00	4.27	....	26.75	6391
3.30	3.29	8.97	8.50	8.05	8.00	0.92	0.50	7.06	7.00	7.06	....	....	6309
1.81	1.65	8.93	8.50	8.11	8.00	0.82	0.50	10.31	10.00	10.31	....	35.00	5436
1.72	1.65	9.26	8.50	8.44	8.00	0.82	0.50	10.67	10.00	10.67	....	35.00	6189
1.76	1.65	8.42	8.50	8.08	8.00	0.34	0.50	10.12	10.00	10.12	....	....	6310
1.66	1.65	9.22	8.50	8.46	8.00	0.76	0.50	*9.57	10.00	9.57	....	34.00	6718
1.75	1.65	9.66	8.50	8.86	8.00	0.80	0.50	10.02	10.00	10.02	....	34.00	7284
1.86	1.65	12.88	12.50	12.02	12.60	0.86	0.50	2.39	2.00	2.39	....	31.70	5171
1.81	1.65	13.36	12.50	12.32	12.00	1.04	0.50	2.08	2.00	2.08	....	33.70	6945
1.67	1.65	10.14	9.50	8.90	9.00	1.24	0.50	3.18	3.00	3.18	....	....	5821
1.86	1.65	10.84	9.50	9.28	9.00	1.56	0.50	3.46	3.00	3.46	....	30.00	7073
1.82	1.65	10.59	9.50	9.29	9.00	1.30	0.50	3.29	3.00	3.29	....	31.00	7526
1.79	1.65	10.20	9.50	8.94	9.00	1.26	0.50	3.24	3.00	3.24	....	28.00	5863
1.74	1.65	10.15	9.50	8.91	9.00	1.24	0.50	3.11	3.00	3.11	....	....	5060
1.70	1.65	10.12	9.50	9.00	9.00	1.12	0.50	3.22	3.00	3.22	....	28.25	5669
3.23	3.29	8.90	8.50	8.00	8.00	0.90	0.50	7.14	7.00	7.14	....	41.20	6555
0.90	0.82	10.42	9.50	9.66	9.00	0.76	0.50	4.02	4.00	4.02	....	25.92	6434
0.84	0.82	9.69	9.50	8.85	9.00	0.84	0.50	4.31	4.00	4.31	....	30.00	5252
0.93	0.82	9.98	9.50	9.26	9.00	0.72	0.50	4.05	4.00	4.05	....	26.00	5642
0.84	0.82	9.95	9.50	9.17	9.00	0.78	0.50	4.07	4.00	4.07	....	31.00	6586
0.92	0.82	10.26	9.50	9.24	9.00	1.02	0.50	4.07	4.06	4.07	....	25.50	6831
0.83	0.82	10.26	9.50	9.14	9.00	1.12	0.50	4.29	4.00	4.29	....	25.75	5327
0.94	0.82	10.15	9.50	9.37	9.00	0.78	0.50	4.24	4.00	4.24	0.64	30.00	7090
1.76	1.65	9.13	8.50	8.23	8.00	0.90	0.50	10.14	10.00	10.14	....	33.38	6436
1.71	1.65	9.38	8.50	8.42	8.00	0.96	0.50	10.39	10.00	10.39	....	34.50	5660
1.79	1.65	9.44	8.50	8.34	8.00	1.10	0.50	9.94	10.00	9.94	....	34.50	6970
1.69	1.65	8.98	8.50	8.44	8.00	0.54	0.50	10.11	10.00	10.11	....	38.00	5997
1.68	1.65	9.11	8.50	8.65	8.00	0.46	0.50	*9.62	10.00	9.62	....	38.50	6583
1.68	1.65	9.31	8.50	8.23	8.00	1.08	0.50	10.01	10.00	10.01	....	34.75	6130
1.76	1.65	9.72	8.50	8.56	8.00	1.16	0.50	*9.50	10.00	9.50	....	33.90	7212
1.73	1.65	9.02	8.50	8.16	8.00	0.86	0.50	5.04	5.00	5.04	....	28.90	6433
1.82	1.65	9.27	8.50	8.29	8.00	0.98	0.50	5.05	5.00	5.05	....	....	7149
1.10	1.65	8.73	8.50	8.03	8.00	0.70	0.50	5.21	5.00	5.21	....	33.00	5994
1.73	1.65	9.20	8.50	8.36	8.00	0.84	0.50	5.12	5.00	4.50	0.62	34.00	6581
1.80	1.65	9.31	8.50	8.51	8.00	0.80	0.50	5.41	5.00	5.41	....	....	5811
1.65	1.65	9.22	8.50	8.32	8.00	0.90	0.50	5.33	5.00	5.33	....	....	7028
1.65	1.65	9.06	8.50	8.22	8.00	0.84	0.50	4.85	5.00	4.85	....	28.75	6832
1.68	1.65	9.31	8.50	8.43	8.00	0.88	0.50	5.04	5.00	5.04	....	31.00	6489
1.67	1.65	9.35	8.50	8.21	8.00	1.14	0.50	5.17	5.00	5.17	....	28.50	5328
1.73	1.65	9.46	8.50	8.76	8.00	0.70	0.50	5.21	5.00	5.21	....	33.00	7091
1.73	1.65	13.32	12.50	12.24	12.00	1.08	0.50	4.19	4.00	4.19	....	30.80	6437
1.76	1.65	13.27	12.50	12.25	12.00	1.02	0.50	4.03	4.00	4.03	....	34.00	7074
1.80	1.65	13.14	12.50	12.10	12.00	1.04	0.50	4.12	4.00	3.20	0.92	32.00	6887
1.67	1.65	12.93	12.50	11.93	12.00	1.00	0.50	4.19	4.00	4.19	....	28.00	5641
1.73	1.65	13.41	12.50	12.55	12.00	0.86	0.50	4.21	4.00	4.21	....	36.00	6585
1.65	1.65	13.16	12.50	12.36	12.00	0.80	0.50	4.27	4.00	4.27	....	31.85	7216
2.55	2.47	10.97	10.50	10.21	10.00	0.76	0.50	6.07	6.00	6.07	....	39.00	6582
2.53	2.47	11.12	10.50	10.24	10.00	0.88	0.50	6.14	6.00	6.14	....	32.00	5330
2.59	2.47	11.36	10.50	10.44	10.00	0.92	0.50	6.28	6.00	6.28	....	35.50	6129
2.69	2.47	11.31	10.50	10.41	10.00	0.90	0.50	6.37	6.00	6.37	....	35.20	7213

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
5929	Lister's Success Fertilizer	.....	Jacob Groh, Lickdale	.....
5675	Lister's Success Fertilizer	.....	Wm. S. Savidge, Turbotville	.....
6132	Lister's Success Fertilizer	.....	R. K. Yoder, Belleville	.....
7218	Lister's Success Fertilizer	.....	R. K. Yoder, Belleville	.....
5459	Old Hickory Fertilizer	.....	J. B. Anderson's Son, Shickshinny	.....
6283	Old Hickory Fertilizer	.....	H. C. Beerits Sons, Somerset	.....
5169	Old Hickory Fertilizer	.....	T. R. Bolton, Cochranston	.....
6780	Old Hickory Fertilizer	.....	T. A. DeLong, Loganton	.....
5061	Old Hickory Fertilizer	.....	John Greenleaf, Quarryville	.....
7021	Old Hickory Fertilizer	.....	James M. Hix, Hamburg	.....
6160	Old Hickory Fertilizer	.....	J. J. Kennedy & Sons, Zelenople	.....
7574	Old Hickory Fertilizer	.....	J. H. McWhirter, Mercer	.....
5753	Old Hickory Fertilizer	.....	H. A. Snyder, Strawberry Ridge	.....
5835	Old Hickory Fertilizer	.....	West Newton Milling Co., West Newton	.....
6849	Old Hickory Fertilizer	.....	C. G. Yost, McEwensville	.....
7024	Patapasco Big Chief Fertilizer	.....	James M. Hix, Hamburg	.....
6227	Patapasco Big Chief Fertilizer	.....	Waite & Burnham, Tyrone	.....
6416	Patapasco Coon Brand Fertilizer	.....	C. L. Ayers, Cannonsburg	.....
5296	Patapasco Coon Brand Fertilizer	.....	Francis Baker, Everett	.....
6165	Patapasco Coon Brand Fertilizer	.....	H. F. Gelbach, Evans City	.....
7555	Patapasco Coon Brand Fertilizer	.....	H. F. Gelbach, Evans City	.....
7023	Patapasco Coon Brand Fertilizer	.....	James M. Hix, Hamburg	.....
7279	Patapasco Coon Brand Fertilizer	.....	Russell Brothers, Washington	.....
7093	Patapasco Coon Brand Fertilizer	.....	S. C. Stockdale, Tarentum	.....
5639	Patapasco Coon Brand Fertilizer	.....	John P. Walter, Vicksburg	.....
5350	Pioneer Fertilizer	.....	Fryberg Roller Mills, Fryberg	.....
6286	Red Dog Fertilizer	.....	H. C. Beerits Sons, Somerset	.....
6779	Red Dog Fertilizer	.....	T. A. DeLong, Loganton	.....
7053	Red Dog Fertilizer	.....	Ewing & Kinsloe, Newton Hamilton	.....
5059	Red Dog Fertilizer	.....	John Greenleaf, Quarryville	.....
6900	Red Dog Fertilizer	.....	Kelly & Shoemaker, Littlestown	.....
7240	Red Dog Fertilizer	.....	Passmore Supply Co., Oxford	.....
5928	Red Dog Fertilizer	.....	John H. Roth, Hamburg	.....
6850	Red Dog Fertilizer	.....	E. O. Seaman, Watsonstown	.....
5275	Red Dog Fertilizer	.....	Sheehan Brothers, Landenberg	.....
7498	Red Dog Fertilizer	.....	Waite & Burnham, Tyrone	.....
5939	Red Dog Fertilizer	.....	C. G. Yost, McEwensville	.....
5309	Red Dragon Fertilizer	.....	Dillsburg Grain & Milling Co., Dillsburg	.....
6898	Red Dragon Fertilizer	.....	Kelly & Shoemaker, Littlestown	.....
5637	Red Dragon Fertilizer	.....	John P. Walter, Vicksburg	.....
6863	Red Dragon Fertilizer	.....	John P. Walters, Vicksburg	.....
6842	Sweepstake Fertilizer	.....	R. S. Blaine, Turbotville	.....
7355	Two-in-One Fertilizer	.....	Farmers' Exchange, Indiana	.....
5515	Two-in-One Fertilizer	.....	D. K. Ferster & Son, Richfield	.....
5575	Two-in-One Fertilizer	.....	Gates Hardware, Grampion	.....
7077	Two-in-One Fertilizer	.....	Gregory & Kocher, Petersburg	.....
5633	Two-in-One Fertilizer	.....	John P. Walter, Vicksburg	.....
AMERICAN CHEMICAL SPECIALTIES				
CO., INC., SPRINGFIELD, N. J.				
7125	Springfield Rose Food	.....	Hosea Waterer, Philadelphia	.....
ARMOUR FERTILIZER WORKS,				
BALTIMORE, MD.				
6857	Armour's Big Crop Fertilizers 1-9-4	.....	D. Luther Bogenrief, Mifflinsburg	.....
7537	Armour's Big Crop Fertilizers 1-9-4	.....	W. K. Davis, Darlington	.....
6578	Armour's Big Crop Fertilizers 1-9-4	.....	Farmers' Exchange, Sandy Lake	.....
5764	Armour's Big Crop Fertilizers 1-9-4	.....	Humphrey Manufacturing Co., Dushore	.....
5354	Armour's Big Crop Fertilizers 1-9-4	.....	Jacobs & Keller Co., St. Marys	.....
7287	Armour's Big Crop Fertilizers 1-9-4	.....	McConnell Brothers, Hughesville	.....
6591	Armour's Big Crop Fertilizers 1-9-4	.....	Frank Metz, Freedom	.....
7494	Armour's Big Crop Fertilizers 1-9-4	.....	Orr & Grazier, Tyrone	.....
6385	Armour's Big Crop Fertilizers 1-9-4	.....	Seligman & Co., Inc., Tamaqua	.....
7413	Armour's Big Crop Fertilizers 1-9-4	.....	J. H. Sheffer Hardware, Knox	.....
5989	Armour's Big Crop Fertilizers 1-9-4	.....	L. B. Weller, Ligonier	.....

## FERTILIZERS--Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.70	1.65	11.05	9.50	9.99	9.00	1.06	0.50	3.43	3.00	3.43	....	30.00	5929
1.76	1.65	10.15	9.50	9.05	9.00	1.10	0.50	3.22	3.00	3.22	....	29.50	5675
1.71	1.65	10.26	9.50	9.22	9.00	1.04	0.50	3.57	3.00	3.57	....	28.85	6132
1.66	1.65	10.38	9.50	9.34	9.00	1.04	0.50	3.41	3.00	3.41	....	29.00	7218
1.65	1.65	8.97	8.50	8.01	8.00	0.96	0.50	10.70	10.00	10.70	....	35.25	5459
1.85	1.65	8.97	8.50	8.09	8.00	0.88	0.50	10.52	10.00	10.52	....	35.00	6283
1.74	1.65	8.50	8.50	8.00	8.00	0.50	0.50	10.04	10.00	9.60	0.44	36.25	5169
1.72	1.65	9.45	8.50	8.07	8.00	1.38	0.50	9.85	10.00	9.85	....	34.40	6780
1.66	1.65	8.93	8.50	8.23	8.00	0.70	0.50	10.30	10.00	10.30	....	....	5061
1.74	1.65	9.63	8.50	8.07	8.00	1.56	0.50	*9.69	10.00	9.69	....	....	7021
1.73	1.65	9.26	8.50	8.52	8.00	0.74	0.50	*9.50	10.00	9.50	....	36.00	6160
1.76	1.65	9.26	8.50	8.52	8.00	0.74	0.50	10.05	10.00	10.05	....	41.00	7574
1.65	1.65	9.95	8.50	8.67	8.00	1.28	0.50	10.42	10.00	10.42	....	34.00	5753
1.59	1.65	9.06	8.50	8.52	8.00	0.54	0.50	10.47	10.00	10.47	....	35.05	5835
1.77	1.65	9.32	8.50	7.86	8.00	1.46	0.50	9.89	10.00	9.89	....	34.00	6849
1.74	1.65	9.46	8.50	8.52	8.00	0.94	0.50	5.10	5.00	5.10	....	....	7024
1.76	1.65	9.46	8.50	8.54	8.00	0.92	0.50	5.02	5.00	5.02	....	31.00	6227
0.95	0.82	9.52	9.50	9.06	9.00	0.46	0.50	4.10	4.00	4.10	....	28.00	6416
0.87	0.82	10.04	9.50	9.36	9.00	0.68	0.50	4.27	4.00	4.27	....	22.00	5296
0.97	0.82	9.87	9.50	9.21	9.00	0.66	0.50	4.17	4.00	4.17	....	....	6165
0.98	0.82	9.86	9.50	9.22	9.00	0.64	0.50	4.12	4.00	3.40	0.72	29.00	7555
1.00	0.82	10.49	9.50	9.47	9.00	1.02	0.50	4.00	4.00	4.00	....	....	7023
0.88	0.82	9.95	9.50	9.51	9.00	0.44	0.50	4.10	4.00	3.80	0.30	26.70	7279
0.94	0.82	10.10	9.50	9.24	9.00	0.86	0.50	4.31	4.00	3.80	0.51	31.00	7093
0.87	0.82	10.27	9.50	9.73	9.00	0.54	0.50	3.97	4.00	3.97	....	27.00	5639
1.72	1.65	9.72	9.50	*8.64	9.00	1.08	0.50	3.06	3.00	3.06	....	30.10	5350
1.89	1.65	10.46	8.50	9.44	8.00	1.02	0.50	5.42	5.00	5.42	....	31.00	6286
1.71	1.65	9.63	8.50	8.37	8.00	1.26	0.50	4.91	5.00	4.91	....	29.60	6779
1.74	1.65	9.66	8.50	8.26	8.00	1.40	0.50	4.94	5.00	4.94	....	30.00	7053
1.94	1.65	9.12	8.50	8.20	8.00	0.92	0.50	5.48	5.00	5.48	....	....	5059
1.72	1.65	9.45	8.50	8.33	8.00	1.12	0.50	5.01	5.00	5.01	....	27.50	6900
1.77	1.65	9.46	8.50	8.68	8.00	0.78	0.50	4.97	5.00	4.97	....	29.00	7240
1.70	1.65	9.13	8.50	8.17	8.00	0.96	0.50	5.54	5.00	5.54	....	28.50	5928
1.76	1.65	8.89	8.50	8.01	8.00	0.88	0.50	5.00	5.00	5.00	....	....	6850
1.71	1.65	8.98	8.50	8.08	8.00	0.90	0.50	4.90	5.00	4.90	....	28.75	5275
1.77	1.65	9.26	8.50	8.58	8.00	0.68	0.50	5.20	5.00	5.20	....	31.00	7498
1.59	1.65	9.95	8.50	8.93	8.00	1.02	0.50	5.12	5.00	5.12	....	28.30	5939
1.72	1.65	13.22	12.50	12.36	12.00	0.86	0.50	2.31	2.00	1.70	0.61	30.65	5309
1.67	1.65	13.52	12.50	12.20	12.00	1.32	0.50	2.25	2.00	2.25	....	28.00	6898
1.74	1.65	13.32	12.50	12.04	12.00	1.28	0.50	2.68	2.00	2.68	....	30.50	5637
1.83	1.65	14.16	12.50	12.78	12.00	1.38	0.50	2.18	2.00	2.18	....	29.50	6863
1.81	1.65	11.30	10.50	10.40	10.00	0.90	0.50	5.95	6.00	5.95	....	31.00	6842
3.35	3.29	17.90	16.50	16.96	16.00	0.94	0.50	4.33	4.00	3.80	0.53	45.00	7355
3.46	3.29	16.68	16.50	16.24	16.00	0.44	0.50	4.20	4.00	3.40	0.80	44.60	5515
3.30	3.29	17.41	16.50	16.59	16.00	0.82	0.50	4.36	4.00	4.36	....	48.00	5575
3.27	3.29	18.15	16.50	17.57	16.00	0.58	0.50	4.23	4.00	4.23	....	....	7077
3.40	3.29	17.20	16.50	16.76	16.00	0.44	0.50	4.49	4.00	4.49	....	42.00	5633
	3.29 to 4.94	11.48	10-12	10.50	5-7	0.98	5.00	3.02	2-3	3.02	....	100.00	7125
1.02	0.82	9.83	9.50	9.67	9.00	0.16	0.50	3.84	4.00	3.84	....	24.00	6857
0.97	0.82	9.90	9.50	9.72	9.00	0.18	0.50	4.29	4.00	4.29	....	30.00	7537
0.94	0.82	9.90	9.50	9.56	9.00	0.34	0.50	4.22	4.00	4.22	....	30.00	6578
1.06	0.82	9.63	9.50	9.49	9.00	0.14	0.50	4.32	4.00	4.32	....	28.00	5764
1.06	0.82	9.34	9.50	9.24	9.00	0.10	0.50	4.25	4.00	4.25	....	32.00	5354
0.98	0.82	9.69	9.50	9.55	9.00	0.14	0.50	3.94	4.00	3.94	....	26.25	7287
1.03	0.82	10.65	9.50	10.27	9.00	0.38	0.50	4.33	4.00	4.33	....	....	6591
1.06	0.82	10.04	9.50	9.90	9.00	0.14	0.50	3.92	4.00	3.92	....	27.70	7494
0.97	0.82	9.64	9.50	9.38	9.00	0.26	0.50	4.28	4.00	4.28	....	27.90	6385
0.95	0.82	9.76	9.50	9.60	9.00	0.16	0.50	4.00	4.00	4.00	....	31.70	7413
1.23	0.82	9.48	9.50	9.24	9.00	0.24	0.50	4.07	4.00	4.07	....	30.00	5989

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6278	Armour's Big Crop Fertilizers 2-8-5.	H. C. Beerits Sons, Somerset.
5797	Armour's Big Crop Fertilizers 2-8-5.	A. M. Butler, Howard.
7538	Armour's Big Crop Fertilizers 2-8-5.	W. K. Davis, Darlington.
6868	Armour's Big Crop Fertilizers 2-8-5.	Chester Grove, West Milton.
6995	Armour's Big Crop Fertilizers 2-8-5.	Hibner-Hoover Hardware, DuBois.
5763	Armour's Big Crop Fertilizers 2-8-5.	Humphrey Manufacturing Co., Dushore.
5355	Armour's Big Crop Fertilizers 2-8-5.	Jacobs & Keller Co., St. Marys.
7365	Armour's Big Crop Fertilizers 2-8-5.	Kline Grain Co., Shelocta.
7286	Armour's Big Crop Fertilizers 2-8-5.	McConnell Brothers, Hughesville.
6570	Armour's Big Crop Fertilizers 2-8-5.	J. B. Roux, New Wilmington.
6383	Armour's Big Crop Fertilizers 2-8-5.	Seligman & Co., Inc., Tamaqua.
7482	Armour's Big Crop Fertilizers 2-8-5.	A. Skelly, Ebensburg.
5107	Armour's Big Crop Fertilizers 2-8-5.	Strite & Eshelman, Greencastle.
6280	Armour's Big Crop Fertilizers 2-8-10.	H. C. Beerits Sons, Somerset.
5822	Armour's Big Crop Fertilizers 2-8-10.	C. D. Eungard, Spring Mills.
6867	Armour's Big Crop Fertilizers 2-8-10.	Chester Grove, West Milton.
5156	Armour's Big Crop Fertilizers 2-8-10.	Oil City Milling Co., Oil City.
7318	Armour's Big Crop Fertilizers 2-8-10.	M. L. Serfoss, Brodheads ville.
6043	Armour's Big Crop Fertilizers 2-8-10.	Coe H. Stearns, Kingsley.
5748	Armour's Big Crop Fertilizers 2-8-10.	Roy H. Treasure, Benton.
7425	Armour's Big Crop Fertilizers 2-12-2.	A. J. Dean & Son, Hawthorn.
6675	Armour's Big Crop Fertilizers 2-12-2.	W. H. Dunlap, Jr., Cannonsburg.
5485	Armour's Big Crop Fertilizers 2-12-2.	H. L. King, New Enterprise.
7532	Armour's Big Crop Fertilizers 2-12-2.	Petersburg Milling Co., Bessemer.
5760	Armour's Big Crop Fertilizers 2-12-2.	Valley Coal Co., Sayre.
5179	Armour's Big Crop Fertilizers 2-12-2.	Vineyard Supplies Co., North East.
5432	Armour's Big Crop Fertilizers 2-12-4.	Adam W. Eckhart, Lehighton.
5598	Armour's Big Crop Fertilizers 2-12-4.	Joseph London, Cloe.
6574	Armour's Big Crop Fertilizers 2-12-4.	Moore & Moore, Portersville.
7544	Armour's Big Crop Fertilizers 2-12-4.	Moore & Moore, Portersville.
5825	Armour's Big Crop Fertilizers 2-12-4.	S. H. Orndorf, Woodward.
7495	Armour's Big Crop Fertilizers 2-12-4.	Orr & Grazier, Tyrone.
5749	Armour's Big Crop Fertilizers 2-12-4.	Roy H. Treasure, Benton.
6149	Armour's Big Crop Fertilizers 2-16-8.	W. K. Davis, Darlington.
6055	Armour's Big Crop Fertilizers 2-16-8.	Devling Brothers, Galeton.
7088	Armour's Big Crop Fertilizers 2-16-8.	Edw. Henning, Mt. Oliver Station.
7364	Armour's Big Crop Fertilizers 2-16-8.	Kline Grain Co., Shelocta.
7531	Armour's Big Crop Fertilizers 2-16-8.	Petersburg Milling Co., Bessemer.
5248	Armour's Big Crop Fertilizers 2-16-8.	M. J. Schill & Co., Marble.
6386	Armour's Big Crop Fertilizers 2-16-8.	Seligman & Co., Inc., Tamaqua.
7319	Armour's Big Crop Fertilizers 2-16-8.	M. L. Serfoss, Brodheads ville.
6656	Armour's Big Crop Fertilizers 2-16-8.	H. W. Smith, Rural Valley.
5998	Armour's Big Crop Fertilizers 2-16-8.	Coe H. Stearns, Kingsley.
6094	Armour's Big Crop Fertilizers 2-16-8.	Pete Techonechuk, Pittsfield.
7189	Armour's Big Crop Fertilizers 2-16-8.	Roy Zimmernan, Bellefonte.
6057	Armour's Big Crop Fertilizers 4-16-4.	Devling Brothers, Galeton.
6676	Armour's Big Crop Fertilizers 4-16-4.	W. H. Dunlap, Jr., Cannonsburg.
5430	Armour's Big Crop Fertilizers 4-16-4.	Adam W. Eckhart, Lehighton.
7198	Armour's Big Crop Fertilizers 4-16-4.	C. H. Eungard, Spring Mills.
7264	Armour's Big Crop Fertilizers 4-16-4.	Fayette Farmers Supply, Uniontown.
5941	Armour's Big Crop Fertilizers 4-16-4.	Chester Grove, West Milton.
6865	Armour's Big Crop Fertilizers 4-16-4.	Chester Grove, West Milton.
7089	Armour's Big Crop Fertilizers 4-16-4.	Edw. Henning, Mt. Oliver Station.
6994	Armour's Big Crop Fertilizers 4-16-4.	Hibner-Hoover Hardware, DuBois.
6917	Armour's Big Crop Fertilizers 4-16-4.	A. H. Klugh, New Kensington.
7530	Armour's Big Crop Fertilizers 4-16-4.	Petersburg Milling Co., Bessemer.
6361	Armour's Big Crop Fertilizers 4-16-4.	Reynoldsville Hardware, Reynoldsville.
6569	Armour's Big Crop Fertilizers 4-16-4.	J. B. Roux, New Wilmington.
6040	Armour's Big Crop Fertilizers 4-16-4.	Coe H. Stearns, Kingsley.
6095	Armour's Big Crop Fertilizers 4-16-4.	Pete Teconchuk, Pittsfield.
7539	Armour's Big Crop Fertilizers 4-16-10.	W. K. Davis, Darlington.
6993	Armour's Big Crop Fertilizers 4-16-10.	Hibner-Hoover Hardware, DuBois.
7087	Armour's Big Crop Fertilizers 5-8-5.	Edw. Henning, Mt. Oliver Station.
5160	Armour's Big Crop Fertilizers 5-8-5.	Oil City Milling Co., Oil City.
5452	Armour's Big Crop Fertilizers 5-8-5.	A. J. Roat Supply Co., Kingston.

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.81	1.65	8.13	8.50	8.01	8.00	0.12	0.50	5.43	5.00	5.43	....	31.00	6278
1.70	1.65	8.25	8.50	8.15	8.00	0.10	0.50	5.63	5.00	5.63	....	....	5797
1.50	1.65	8.67	8.50	8.35	8.00	0.32	0.50	5.53	5.00	5.53	....	33.00	7538
1.81	1.65	8.76	8.50	8.70	8.00	0.06	0.50	*4.79	5.00	4.79	....	30.50	6868
1.56	1.65	8.61	8.50	8.21	8.00	0.40	0.50	5.24	5.00	5.24	....	33.75	6995
1.85	1.65	8.19	8.50	8.05	8.00	0.14	0.50	5.09	5.00	5.09	....	31.00	5763
2.07	1.65	8.62	8.50	8.28	8.00	0.34	0.50	5.00	5.00	5.00	....	35.50	5355
1.79	1.65	8.67	8.50	8.57	8.00	0.10	0.50	*4.73	5.00	4.73	....	33.30	7365
1.85	1.65	8.98	8.50	8.88	8.00	0.10	0.50	4.86	5.00	4.86	....	29.50	7286
1.82	1.65	8.55	8.50	8.35	8.00	0.20	0.50	5.13	5.00	5.13	....	32.05	6570
1.76	1.65	8.62	8.50	8.30	8.00	0.32	0.50	5.12	5.00	5.12	....	33.30	6383
1.75	1.65	9.44	8.50	9.08	8.00	0.36	0.50	*4.64	5.00	4.64	....	25.00	7482
1.94	1.65	8.73	8.50	8.35	8.00	0.38	0.50	5.16	5.00	5.16	....	27.00	5107
1.83	1.65	8.20	8.50	8.08	8.00	0.12	0.50	10.35	10.00	10.35	....	35.00	6280
1.68	1.65	8.29	8.50	8.19	8.00	0.10	0.50	10.05	10.00	10.05	....	....	5822
1.59	1.65	8.88	8.50	8.68	8.00	0.20	0.50	10.04	10.00	10.04	....	35.50	6867
1.85	1.65	8.55	8.50	8.41	8.00	0.14	0.50	10.00	10.00	10.00	....	35.15	5156
1.61	1.65	9.69	8.50	9.49	8.00	0.20	0.50	10.20	10.00	10.20	....	31.75	7318
1.82	1.65	8.29	8.50	8.17	8.00	0.12	0.50	10.03	10.00	10.03	....	34.20	6043
1.84	1.65	8.80	8.50	8.68	8.00	0.12	0.50	*9.16	10.00	9.16	....	34.50	5748
1.90	1.65	12.91	12.50	12.71	12.00	0.20	0.50	2.44	2.00	2.44	....	31.45	7425
1.77	1.65	12.26	12.50	12.10	12.00	0.16	0.50	2.45	2.00	2.45	....	29.00	6675
2.16	1.65	12.88	12.50	12.06	12.00	0.82	0.50	2.28	2.00	2.74	....	25.55	5485
1.72	1.65	12.26	12.50	12.14	12.00	0.12	0.50	2.18	2.00	2.18	....	31.00	7532
1.75	1.65	13.00	12.50	12.36	12.00	0.64	0.50	2.19	2.00	1.80	0.39	32.35	5760
2.39	1.65	10.89	12.50	*10.46	12.00	0.43	0.50	4.27	4.00	4.27	....	39.55	5179
1.79	1.65	12.63	12.50	12.53	12.00	0.10	0.50	4.26	4.00	4.26	....	26.90	5432
1.78	1.65	12.37	12.50	12.29	12.00	0.08	0.50	4.36	4.00	4.36	....	31.00	5598
1.60	1.65	13.24	12.50	13.12	12.00	0.12	0.50	4.31	4.00	4.31	....	34.00	6574
1.77	1.65	12.76	12.50	12.66	12.00	0.10	0.50	4.69	4.00	4.69	....	34.50	7544
1.68	1.65	12.78	12.50	12.64	12.00	0.14	0.50	4.26	4.00	4.26	....	32.20	5825
1.89	1.65	12.13	12.50	12.03	12.00	0.10	0.50	4.96	4.00	4.96	....	32.00	7495
1.71	1.65	16.72	16.50	16.36	16.00	0.36	0.50	8.80	8.00	8.80	....	32.00	5749
1.81	1.65	16.62	16.50	16.36	16.00	0.26	0.50	8.81	8.00	8.81	....	44.00	6149
1.66	1.65	17.04	16.50	16.56	16.00	0.48	0.50	9.22	8.00	8.70	0.52	45.35	6035
1.55	1.65	17.48	16.50	17.34	16.00	0.14	0.50	8.04	8.00	8.04	....	50.00	7088
1.67	1.65	18.22	16.50	17.34	16.00	0.88	0.50	8.56	8.00	8.56	....	44.00	7364
1.65	1.65	16.58	16.50	16.26	16.00	0.32	0.50	8.75	8.00	6.40	2.35	41.00	7531
1.74	1.65	16.46	16.50	16.12	16.00	0.34	0.50	8.20	8.00	8.20	....	41.40	5248
1.65	1.65	17.48	16.50	17.06	16.00	0.42	0.50	8.36	8.00	8.36	....	41.10	6386
1.65	1.65	17.09	16.50	16.81	16.00	0.28	0.50	8.10	8.00	8.10	....	38.50	7319
1.75	1.65	16.90	16.50	16.34	16.00	0.56	0.50	8.77	8.00	8.77	....	42.00	6656
1.66	1.65	16.75	16.50	16.47	16.00	0.28	0.50	8.42	8.00	8.42	....	39.00	5998
1.57	1.65	16.65	16.50	16.55	16.00	0.10	0.50	8.34	8.00	8.34	....	38.50	6094
3.43	3.29	17.14	16.50	16.78	16.00	0.36	0.50	4.17	4.00	4.17	....	39.40	7189
3.35	3.29	16.80	16.50	16.48	16.00	0.32	0.50	4.22	4.00	4.22	....	46.95	6057
3.41	3.29	16.84	16.50	16.32	16.00	0.52	0.50	4.51	4.00	3.40	1.11	39.90	6676
3.12	3.29	16.90	16.50	16.68	16.00	0.22	0.50	4.33	4.00	4.33	....	36.95	5430
3.26	3.29	16.84	16.50	16.66	16.00	0.18	0.50	4.17	4.00	4.17	....	43.00	7198
3.38	3.29	17.27	16.50	16.81	16.00	0.46	0.50	4.33	4.00	4.33	....	50.00	7264
3.17	3.29	16.99	16.50	16.77	16.00	0.22	0.50	4.15	4.00	4.15	....	....	5941
3.29	3.29	16.84	16.50	16.72	16.00	0.12	0.50	4.51	4.00	3.80	0.71	45.00	6865
3.19	3.29	17.41	16.50	17.13	16.00	0.28	0.50	4.33	4.00	4.33	....	50.00	7089
3.23	3.29	17.39	16.50	17.11	16.00	0.28	0.50	4.17	4.00	4.17	....	47.50	6994
3.45	3.29	18.45	16.50	17.01	16.00	1.44	0.50	*3.71	4.00	2.60	1.11	48.00	6917
3.33	3.29	17.09	16.50	16.77	16.00	0.32	0.50	4.09	4.00	3.40	0.69	42.50	7530
3.53	3.29	17.27	16.50	16.83	16.00	0.44	0.50	4.19	4.00	4.19	....	42.95	6361
3.39	3.29	17.31	16.50	16.83	16.00	0.48	0.50	4.58	4.00	4.58	....	44.45	6569
3.33	3.29	17.31	16.50	16.95	16.00	0.36	0.50	4.08	4.00	4.08	....	41.40	6040
3.38	3.29	16.84	16.50	16.64	16.00	0.20	0.50	10.03	10.00	10.03	....	42.00	6095
3.37	3.29	17.36	16.50	17.12	16.00	0.24	0.50	9.97	10.00	9.97	....	54.00	7539
3.97	4.11	9.98	8.50	8.82	8.00	1.16	0.50	5.33	5.00	5.33	....	58.50	6993
*3.75	4.11	9.85	8.50	8.75	8.00	1.10	0.50	5.07	5.00	5.07	....	50.00	7087
4.14	4.11	8.60	8.50	8.28	8.00	0.32	0.50	5.49	5.00	5.49	....	46.00	5160
												48.20	5452

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5761	Armour's Big Crop Fertilizers 5-8-5.....	Valley Coal Co., Sayre.....
5796	Armour's Big Crop Fertilizers 5-15-5.....	M. Harold Betz, Howard.....
6196	Armour's Big Crop Fertilizers 5-15-5.....	D. Luther Bogenrief, Mifflinburg.....
7540	Armour's Big Crop Fertilizers 5-15-5.....	W. K. Davis, Darlington.....
5909	Armour's Big Crop Fertilizers 7-11-10.....	M. L. Serfoss, Brodheads ville.....
5428	Armour's Big Crop Potato Grower Fertilizer.....	Adam W. Eckhart, Leighton.....
5406	Armour's Big Crop Potato Grower Fertilizer.....	Eulalia Milling Co., Coudersport.....
6683	Armour's Big Crop Potato Grower Fertilizer.....	Fayette Farmers Supply Co., Uniontown.....
5353	Armour's Big Crop Potato Grower Fertilizer.....	Jacobs & Keller Co., St. Marys.....
6150	Armour's Big Crop Potato Grower Fertilizer.....	Petersville Milling Co., Bessemer.....
5109	Armour's Big Crop Potato Grower Fertilizer.....	Strite & Eshelman, Greencastle.....
5745	Armour's Big Crop Potato Grower Fertilizer.....	Roy H. Treasure, Benton.....
5429	Armour's Big Crop High Grade Potato.....	Adam W. Eckhart, Leighton.....
5907	Armour's Big Crop Royal Ammoniated.....	M. L. Serfoss, Brodheads ville.....
6342	Armour's Big Crop Special Mixture Fertilizer.....	Gunn Brothers, Hawley.....
6374	Armour's Big Crop Special Mixture Fertilizer.....	Hibner-Hoover Hardware, DuBois.....
6996	Armour's Big Crop Special Mixture Fertilizer.....	Hibner-Hoover Hardware, DuBois.....
7285	Armour's Big Crop Tomato Grower Fertilizer.....	McConnell Brothers, Hughesville.....
6573	Armour's Big Crop Tomato Grower Fertilizer.....	Moore & Moore, Portersville.....
5247	Armour's Big Crop Tomato Grower Fertilizer.....	M. J. Schill & Co., Marble.....
6384	Armour's Big Crop Tomato Grower Fertilizer.....	Seligman & Co., Inc., Tamaqua.....
5108	Armour's Big Crop Tomato Grower Fertilizer.....	Strite & Eshelman, Greencastle.....
5412	Armour's Big Crop Truck Grower.....	Devling Brothers, Galetton.....
6007	Armour's Big Crop Truck Grower.....	H. G. Lake, Montrose.....
6093	Armour's Big Crop Truck Grower.....	Peter Teconchuk, Pittsfield.....
5154	Armour's Lawn and Garden Grower.....	Oil City Milling Co., Oil City.....
5454	Armour's Lawn and Garden Grower.....	A. J. Roat Supply Co., Kingston.....
6381	Armour's Lawn and Garden Grower.....	Seligman & Co., Inc., Tamaqua.....
7328	Tuscorora Fish and Potash Special Mixture.....	Andy Hettler, Leighton.....
6312	Tuscorora Fish and Potash Special Mixture.....	Jacob K. Hower, Danielsville.....
6311	Tuscorora Fruit and Root Crop Special.....	Jacob K. Hower, Danielsville.....
6313	Tuscorora Grain and Clover.....	Jacob K. Hower, Danielsville.....
6352	Tuscorora Potato and Truck Guano.....	Elmer Danenberger, Huntington Valley.....
BALTIMORE FERTILIZER CO., BALTIMORE, MD.		
6802	Honest 1-9-4.....	Chambersburg Fertilizer Works, Chambersburg.....
5120	Honest 2-8-5.....	Chambersburg Fertilizer Works, Chambersburg.....
6800	Honest 2-8-5.....	Chambersburg Fertilizer Works, Chambersburg.....
5119	Honest 2-8-10.....	Chambersburg Fertilizer Works, Chambersburg.....
6803	Honest 2-8-10.....	Chambersburg Fertilizer Works, Chambersburg.....
5377	Honest 4-8-7.....	W. B. Barnitz, Carlisle.....
5122	Honest 4-8-7.....	Chambersburg Fertilizer Works, Chambersburg.....
5121	Old Honesty.....	Chambersburg Fertilizer Works, Chambersburg.....
6801	Old Honesty.....	Chambersburg Fertilizer Works, Chambersburg.....
BAUGH & SONS COMPANY, PHILADELPHIA, PA.		
7226	Baugh's Animal Base and Potash Compound.....	Belleville Flour Mills, Belleville.....
5137	Baugh's Animal Base and Potash Compound.....	D. W. Faust & Son, Chambersburg.....
5756	Baugh's Animal Base and Potash Compound.....	Ralph Fuller, Turbotville.....
5197	Baugh's Animal Base and Potash Compound.....	Samuel B. Kauffman, Hanburg.....
5581	Baugh's Animal Base and Potash Compound.....	Routch & Swartzle Hardware, Clearfield.....
7003	Baugh's Animal Base and Potash Compound.....	Routch & Swartzle Hardware, Clearfield.....
7100	Baugh's Animal Base and Potash Compound.....	F. W. Scott, Hays.....
6276	Baugh's Balanced Plant Food.....	Barnett Brothers, Stoystown.....
5685	Baugh's Balanced Plant Food.....	W. C. Follmer Benton.....
6661	Baugh's Balanced Plant Food.....	Thomas K. George, Homer City.....
6306	Baugh's Balanced Plant Food.....	Lehigh Exchange, Germansville.....
5184	Baugh's Balanced Plant Food.....	Schrimper Brothers, Belle Valley.....
6350	Baugh's Balanced Plant Food.....	Smith & Neale, Waymart.....
7112	Baugh's Commercial Crop Compound.....	Baugh & Sons Company, Philadelphia.....
7224	Baugh's Commercial Crop Compound.....	Belleville Flour Mills, Belleville.....
6737	Baugh's Commercial Crop Compound.....	Joel Kershner, Shartlesville.....
7403	Baugh's Commercial Crop Compound.....	O. F. Kleckner, New Ringgold.....

## FERTILIZERS—Continued.

NITROGEN		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.00	4.11	8.37	8.50	8.07	8.00	0.30	0.50	4.89	5.00	4.89	.....	41.10	5761
4.24	4.11	15.74	15.50	15.48	15.00	0.26	0.50	5.87	5.00	5.87	.....	45.00	5796
*3.77	4.11	15.89	15.50	15.71	15.00	0.18	0.50	4.96	5.00	4.96	.....	50.00	6196
4.11	4.11	16.14	15.50	15.92	15.00	0.22	0.50	5.50	5.00	4.60	0.90	50.00	7540
6.02	5.76	11.75	11.50	11.15	11.00	0.60	0.50	10.00	10.00	10.00	.....	53.77	5909
3.86	3.29	8.21	8.50	7.95	8.00	0.26	0.50	*6.74	7.00	6.74	.....	32.65	5428
3.26	3.29	8.83	8.50	8.59	8.00	0.24	0.50	7.29	7.00	7.29	.....	39.00	5406
3.12	3.29	8.43	8.50	8.33	8.00	0.10	0.50	7.22	7.00	7.22	.....	40.00	6683
*3.05	3.29	8.11	8.50	7.95	8.00	0.16	0.50	6.91	7.00	6.91	.....	45.00	5353
3.16	3.29	8.25	8.50	7.81	8.00	0.44	0.50	6.84	7.00	6.84	.....	38.00	6150
3.57	3.29	8.71	8.50	8.39	8.00	0.32	0.50	7.29	7.00	7.29	.....	36.50	5109
3.18	3.29	8.51	8.50	8.15	8.00	0.36	0.50	*6.70	7.00	6.70	.....	37.75	5745
1.92	1.65	8.46	8.50	7.96	8.00	0.50	0.50	10.10	10.00	9.70	0.40	29.55	5429
1.03	0.82	10.42	9.50	9.68	9.00	0.74	0.50	4.00	4.00	4.00	.....	24.78	5907
1.87	1.65	10.55	9.50	9.57	9.00	0.98	0.50	3.04	3.00	3.04	.....	36.00	6342
1.87	1.65	11.20	9.50	9.60	9.00	1.60	0.50	3.26	3.00	3.26	.....	35.00	6374
1.67	1.65	10.92	9.50	9.52	9.00	1.40	0.50	*2.74	3.00	2.74	.....	26.00	6996
2.57	2.47	10.60	10.50	10.44	10.00	0.16	0.50	6.19	6.00	6.19	.....	35.00	7285
2.35	2.47	10.56	10.50	10.38	10.00	0.18	0.50	5.86	6.00	5.86	.....	38.00	6573
2.48	2.47	10.20	10.50	10.02	10.00	0.18	0.50	5.89	6.00	5.89	.....	36.40	5247
*2.25	2.47	10.31	10.50	10.05	10.00	0.26	0.50	6.42	6.00	6.42	.....	36.00	6384
2.45	2.47	10.66	10.50	10.34	10.00	0.32	0.50	*5.79	6.00	5.79	.....	36.00	5108
*5.39	5.76	12.99	12.50	12.51	12.00	0.48	0.50	7.08	7.00	5.50	1.58	56.25	5412
*5.51	5.76	13.01	12.50	12.73	12.00	0.28	0.50	7.33	7.00	7.33	.....	65.00	6007
*5.38	5.76	12.90	12.50	12.66	12.00	0.24	0.50	7.26	7.00	7.26	.....	55.35	6093
4.94	4.94	11.14	8.50	8.72	8.00	2.42	0.50	*5.67	6.00	.....	5.67	70.00	5154
5.19	4.94	10.51	8.50	8.47	8.00	2.04	0.50	6.07	6.00	.....	6.07	80.00	5454
5.28	4.94	10.42	8.50	8.64	8.00	1.78	0.50	6.31	6.00	.....	6.31	.....	6381
1.69	1.65	9.66	9.50	9.36	9.00	0.30	0.50	2.88	3.00	2.88	.....	.....	7328
1.89	1.65	9.93	9.50	9.07	9.00	0.86	0.50	3.10	3.00	3.10	.....	60.00	6312
1.91	1.65	9.82	8.50	9.20	8.00	0.62	0.50	5.24	5.00	5.24	.....	55.00	6311
1.04	0.82	9.40	9.50	9.04	9.00	0.36	0.50	4.24	4.00	4.24	.....	50.00	6313
2.67	2.47	10.74	10.50	10.18	10.00	0.56	0.50	6.00	6.00	5.30	0.70	32.25	6352
1.12	0.82	10.59	.....	10.21	9.00	0.38	.....	4.13	4.00	4.13	.....	.....	6802
1.94	1.64	8.67	8.50	8.03	8.00	0.64	0.50	5.71	5.00	5.71	.....	29.00	5120
1.76	1.64	9.46	8.50	9.26	8.00	0.20	0.50	5.47	5.00	5.47	.....	.....	6800
1.86	1.64	9.06	8.50	8.30	8.00	0.76	0.50	10.93	10.00	10.93	.....	33.50	5119
1.86	1.64	9.27	.....	8.79	8.00	0.48	.....	9.89	10.00	9.89	.....	.....	6803
3.53	3.28	9.10	8.50	8.18	8.60	0.92	0.50	7.75	7.00	7.75	.....	.....	5377
3.32	3.28	9.16	8.50	8.74	8.60	0.42	0.50	8.33	7.00	8.33	.....	37.00	5122
1.32	0.82	11.98	11.50	11.24	11.00	0.74	0.50	2.68	2.00	2.68	.....	25.50	5121
1.09	0.82	12.63	.....	12.25	11.00	0.38	.....	2.82	2.00	2.82	.....	.....	6801
1.71	1.65	9.98	9.00	9.00	9.00	0.98	.....	2.95	3.00	2.95	.....	29.00	7226
2.02	1.65	9.91	9.00	9.35	9.00	0.56	.....	3.06	3.00	3.06	.....	29.40	5137
1.80	1.65	10.46	9.00	9.40	9.00	1.06	.....	3.02	3.00	3.02	.....	30.00	5756
1.82	1.65	10.47	9.00	9.43	9.00	1.04	.....	3.13	3.00	3.13	.....	28.70	5197
1.82	1.65	9.76	9.00	9.16	9.00	0.60	.....	3.36	3.00	3.36	.....	31.50	5581
1.91	1.65	10.59	9.00	9.39	9.00	1.20	.....	3.48	3.00	3.48	.....	31.00	7003
1.85	1.65	10.56	9.00	9.54	9.00	1.02	.....	3.37	3.00	3.37	.....	38.00	7100
3.41	3.30	13.07	12.00	11.87	12.00	1.20	.....	4.00	4.00	4.00	.....	38.00	6276
3.41	3.30	12.55	12.00	*11.51	12.00	1.04	.....	4.29	4.00	4.29	.....	38.50	5685
3.27	3.30	14.20	12.00	13.44	12.00	0.76	.....	4.01	4.00	4.01	.....	34.00	6661
3.73	3.30	13.32	12.00	12.66	12.00	0.72	.....	4.43	4.00	4.43	.....	.....	6306
3.33	3.30	13.09	12.00	12.27	12.00	0.82	.....	4.65	4.00	4.65	.....	41.00	5184
3.36	3.30	13.59	12.00	12.63	12.00	0.96	.....	4.25	4.00	4.25	.....	.....	6350
1.74	1.65	9.08	8.00	8.54	8.60	0.54	.....	10.65	10.00	10.65	.....	.....	7112
1.61	1.65	9.57	8.00	8.65	8.00	0.92	.....	9.95	10.00	9.95	.....	35.00	7224
1.76	1.65	9.31	8.60	8.45	8.00	0.86	.....	10.14	10.00	10.14	.....	32.15	6737
1.65	1.65	9.25	8.60	8.45	8.00	0.80	.....	10.10	10.00	10.10	.....	33.50	7403

\*Deficient.

‡Sold at the rate of 50 cts. for 5 lbs.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
7251	Baugh's Commercial Crop Compound.....	Passmore & Co., Nottingham.....
5194	Baugh's Commercial Superphosphate.....	Samuel B. Kauffman, Hamburg.....
6168	Baugh's Commercial Superphosphate.....	Midland Milling & Supply Co., Midland.....
6198	Baugh's Commercial Superphosphate.....	Mifflinburg Farmers Exchange, Inc., Mifflinburg.....
5832	Baugh's Commercial Superphosphate.....	J. Harvey Miller, Ligonier.....
6452	Baugh's Commercial Superphosphate.....	Smith & Neele, Waymart.....
5705	Baugh's Commercial Superphosphate.....	West Manheim Farmers' Association, Hanover.....
7111	Baugh's Complete Animal Base Fertilizer.....	Baugh & Sons Co., Philadelphia.....
7188	Baugh's Complete Animal Base Fertilizer.....	John Eby, Zion.....
5844	Baugh's Complete Animal Base Fertilizer.....	Farmers' Exchange, Indiana.....
6811	Baugh's Complete Animal Base Fertilizer.....	D. W. Faust & Son, Chambersburg.....
5047	Baugh's Complete Animal Base Fertilizer.....	E. B. Fritz & Son, Quarryville.....
6839	Baugh's Complete Animal Base Fertilizer.....	Ralph Fuller, Turbotville.....
5195	Baugh's Complete Animal Base Fertilizer.....	Samuel B. Kauffman, Hamburg.....
6739	Baugh's Complete Animal Base Fertilizer.....	Joel Kershner, Shartlesville.....
7235	Baugh's Complete Animal Base Fertilizer.....	Richards & Schrader, Ward.....
7002	Baugh's Complete Animal Base Fertilizer.....	Routch & Swartzle Hardware, Clearfield.....
6348	Baugh's Complete Animal Base Fertilizer.....	Smith & Neele, Waymart.....
5708	Baugh's Complete Animal Base Fertilizer.....	West Manheim Farmers' Association, Hanover.....
7151	Baugh's Complete Animal Base Fertilizer.....	West Manheim Farmers' Association, Hanover.....
6277	Baugh's Corn and Oats Fertilizer.....	Barnett Brothers, Stoystown.....
5198	Baugh's Corn and Oats Fertilizer.....	Samuel B. Kauffman, Hamburg.....
6419	Baugh's Corn and Oats Fertilizer.....	J. H. Laird, Wylandville.....
6170	Baugh's Corn and Oats Fertilizer.....	Midland Milling & Supply Co., Midland.....
5866	Baugh's Corn and Oats Fertilizer.....	W. J. Pratt, Pocopson.....
6345	Baugh's Corn and Oats Fertilizer.....	Smith & Neele, Waymart.....
5297	Baugh's Double Eagle Phosphate.....	Francis Baker, Everett.....
7225	Baugh's Double Eagle Phosphate.....	Belleville Flour Mills, Belleville.....
5409	Baugh's Double Eagle Phosphate.....	Eulalia Milling Co., Coudersport.....
6838	Baugh's Double Eagle Phosphate.....	Ralph Fuller, Turbotville.....
7421	Baugh's Double Eagle Phosphate.....	McEwen Hardware, New Bethlehem.....
6167	Baugh's Double Eagle Phosphate.....	Midland Milling & Supply Co., Midland.....
7559	Baugh's Double Eagle Phosphate.....	Midland Milling & Supply Co., Midland.....
5336	Baugh's Double Eagle Phosphate.....	D. E. Schwartz, Gettysburg.....
6894	Baugh's Double Eagle Phosphate.....	D. E. Schwartz, Gettysburg.....
5843	Baugh's Double Power Fertilizer.....	Farmers' Exchange, Indiana.....
6418	Baugh's Double Power Fertilizer.....	J. H. Laird, Wylandville.....
7275	Baugh's Double Power Fertilizer.....	J. H. Laird, Wylandville.....
5579	Baugh's Double Power Fertilizer.....	Routch & Swartzle Hardware, Clearfield.....
5904	Baugh's Double Power Fertilizer.....	O. F. Smith, Lehighton.....
7339	Baugh's Double Power Fertilizer.....	W. B. Tobias, Mohrsville.....
5300	Baugh's Excelsior Guano.....	Francis Baker, Everett.....
7051	Baugh's Excelsior Guano.....	P. J. Briggs, Mt. Union.....
7229	Baugh's Excelsior Guano.....	Brinton & Sons, West Chester.....
5842	Baugh's Excelsior Guano.....	Farmers' Exchange, Indiana.....
6810	Baugh's Excelsior Guano.....	D. W. Faust & Son, Chambersburg.....
6837	Baugh's Excelsior Guano.....	Ralph Fuller, Turbotville.....
5196	Baugh's Excelsior Guano.....	Samuel B. Kauffman, Hamburg.....
5644	Baugh's Excelsior Guano.....	Mifflinburg Farmers' Exchange, Inc., Mifflinburg.....
6218	Baugh's Excelsior Guano.....	Orr & Gazier, Tyrone.....
5578	Baugh's Excelsior Guano.....	Routch & Swartzle Hardware, Clearfield.....
7001	Baugh's Excelsior Guano.....	Routch & Swartzle Hardware, Clearfield.....
7486	Baugh's Excelsior Guano.....	James Shero, St. Benedict.....
7320	Baugh's Excelsior Guano.....	Arthur Switzgabel, Brodheads ville.....
7340	Baugh's Excelsior Guano.....	W. B. Tobias, Mohrsville.....
5408	Baugh's Fish, Bone and Potash.....	Eulalia Milling Co., Coudersport.....
5845	Baugh's Fish, Bone and Potash.....	Farmers' Exchange, Indiana.....
5686	Baugh's Fish, Bone and Potash.....	W. C. Follmer, Benton.....
6222	Baugh's Fish, Bone and Potash.....	Orr & Gazier, Tyrone.....
6275	Baugh's Fish Mixture.....	Barnett Brothers, Stoystown.....
5253	Baugh's Fish Mixture.....	Edward Brinton & Sons, West Chester.....
5139	Baugh's Fish Mixture.....	D. W. Faust & Son, Chambersburg.....
6396	Baugh's Fish Mixture.....	E. P. Wargo, Danville.....
7401	Baugh's Fish Mixture.....	E. P. Wargo, Danville.....
7396	Baugh's Half and Half Mixture with Potash.....	J. M. Schwartz, Urban.....

## FERTILIZERS—Continued

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.76	1.65	9.18	8.00	8.38	8.00	0.80	.....	9.81	10.00	9.81	....	34.00	7251
1.92	1.65	9.15	8.00	8.29	8.00	0.86	.....	10.22	10.00	10.22	....	34.50	5194
1.69	1.65	8.95	8.00	8.23	8.00	0.72	.....	10.76	10.00	10.76	....	36.00	6168
1.75	1.65	8.98	8.00	8.24	8.00	0.74	.....	10.03	10.00	10.03	....	33.80	6198
1.85	1.65	8.73	8.00	8.01	8.00	0.72	.....	10.19	10.00	10.19	....	38.50	5832
1.65	1.65	10.77	8.00	9.83	8.00	0.94	.....	*8.54	10.00	8.54	....	.....	6452
1.69	1.65	8.60	8.00	8.08	8.00	0.52	.....	10.30	10.00	10.30	....	.....	5705
1.75	1.65	9.24	8.00	8.14	8.00	1.10	.....	5.26	5.00	5.26	....	.....	7111
1.69	1.65	8.93	8.00	8.03	8.00	0.90	.....	5.56	5.00	5.56	....	.....	7188
1.77	1.65	8.61	8.00	7.95	8.00	0.66	.....	5.22	5.00	5.22	....	34.50	5844
1.71	1.65	8.73	8.00	8.37	8.00	0.36	.....	5.21	5.00	5.21	....	28.25	6811
1.75	1.65	9.31	8.00	8.19	8.00	1.12	.....	5.05	5.00	5.05	....	.....	5047
1.77	1.65	9.22	8.00	8.36	8.00	0.86	.....	5.10	5.00	5.10	....	37.25	6839
1.89	1.65	9.31	8.00	8.39	8.00	0.92	.....	5.13	5.00	5.13	....	29.85	5195
1.78	1.65	9.44	8.00	8.30	8.00	1.14	.....	4.96	5.00	4.96	....	27.25	6739
1.70	1.65	9.02	8.00	8.48	8.00	0.54	.....	5.14	5.00	5.14	....	29.00	7235
1.73	1.65	8.65	8.00	7.87	8.00	0.78	.....	5.14	5.00	5.14	....	32.00	7002
2.77	1.65	8.93	8.00	8.17	8.00	0.76	.....	5.08	5.00	5.08	....	.....	6348
1.82	1.65	8.88	8.00	8.24	8.00	0.64	.....	5.05	5.00	5.05	....	.....	5708
1.77	1.65	9.11	8.00	8.21	8.00	0.90	.....	5.37	5.00	5.37	....	27.75	7151
1.90	1.65	13.65	12.00	12.37	12.00	1.28	.....	2.23	2.00	2.23	....	30.00	6277
1.97	1.65	14.06	12.00	12.94	12.00	1.12	.....	2.47	2.00	2.47	....	30.00	5198
1.84	1.65	13.18	12.00	12.78	12.00	0.40	.....	2.21	2.00	2.21	....	34.00	6419
1.76	1.65	12.64	12.00	11.98	12.00	0.66	.....	2.29	2.00	2.29	....	32.00	6170
1.79	1.65	13.56	12.00	12.36	12.00	1.20	.....	2.45	2.00	2.45	....	26.00	5866
1.61	1.65	12.82	12.00	*11.80	12.00	1.02	.....	2.80	2.00	2.80	....	.....	6345
1.75	1.65	12.63	12.00	12.23	12.00	0.40	.....	4.10	4.00	4.10	....	34.00	5297
1.83	1.65	13.37	12.00	12.45	12.00	0.92	.....	4.50	4.00	4.50	....	32.00	7225
1.83	1.65	12.76	12.00	12.26	12.00	0.50	.....	4.43	4.00	4.43	....	33.00	5409
1.87	1.65	13.33	12.00	12.31	12.00	1.02	.....	4.08	4.00	4.08	....	30.25	6838
1.86	1.65	14.24	12.00	12.78	12.00	1.46	.....	4.29	4.00	4.29	....	34.85	7421
1.73	1.65	12.73	12.00	12.11	12.00	0.62	.....	4.09	4.00	4.09	....	34.00	6167
1.90	1.65	13.90	12.00	12.70	12.00	1.20	.....	4.55	4.00	4.55	....	33.00	7559
1.88	1.65	12.91	12.00	12.45	12.00	0.46	.....	4.29	4.00	4.29	....	.....	5336
1.86	1.65	13.01	12.00	12.05	12.00	0.96	.....	4.00	4.00	4.00	....	.....	6894
3.36	3.30	16.66	16.00	15.90	16.00	0.76	.....	4.69	4.00	4.69	....	45.00	5843
3.52	3.30	17.77	16.00	16.91	16.00	0.86	.....	4.22	4.00	4.22	....	49.00	6418
3.41	3.30	17.51	16.00	16.69	16.00	0.82	.....	4.40	4.00	4.40	....	48.00	7275
3.49	3.30	17.60	16.00	16.44	16.00	1.16	.....	4.29	4.00	4.29	....	44.00	5579
3.69	3.30	17.31	16.00	16.43	16.00	0.88	.....	4.55	4.00	4.55	....	40.00	5904
3.22	3.30	17.16	16.00	16.20	16.00	0.96	.....	4.34	4.00	4.34	....	.....	7339
0.93	0.82	9.58	9.00	9.08	9.00	0.50	.....	4.19	4.00	4.19	....	28.00	5300
0.97	0.82	9.96	9.00	9.22	9.00	0.74	.....	4.49	4.00	4.49	....	28.00	7051
0.97	0.82	10.10	9.00	9.22	9.00	0.88	.....	4.19	4.00	4.19	....	.....	7229
1.04	0.82	10.40	9.00	9.86	9.00	0.54	.....	4.83	4.00	4.83	....	31.00	5842
0.97	0.82	10.28	9.00	9.72	9.00	0.56	.....	4.19	4.00	4.19	....	25.00	6810
1.00	0.82	9.76	9.00	8.90	9.00	0.86	.....	4.11	4.00	4.11	....	24.55	6837
1.04	0.82	10.20	9.00	9.26	9.00	0.94	.....	4.38	4.00	4.38	....	26.70	5196
1.05	0.82	9.85	9.00	9.13	9.00	0.72	.....	4.30	4.00	4.30	....	26.00	5644
1.00	0.82	10.13	9.00	9.47	9.00	0.66	.....	4.15	4.00	4.15	....	28.80	6218
0.93	0.82	9.96	9.00	9.32	9.00	0.64	.....	4.14	4.00	4.14	....	28.50	5578
1.44	0.82	9.93	9.00	8.97	9.00	0.96	.....	4.11	4.00	4.11	....	28.50	7001
1.16	0.82	10.33	9.00	9.61	9.00	0.72	.....	4.14	4.00	4.14	....	.....	7486
0.97	0.82	10.72	9.00	9.78	9.00	0.94	.....	4.28	4.00	4.28	....	24.50	7320
1.06	0.82	10.38	9.00	9.46	9.00	0.92	.....	4.42	4.00	4.42	....	.....	7340
3.45	3.30	8.83	8.00	8.09	8.00	0.74	.....	4.11	4.00	4.11	....	36.00	5408
3.26	3.30	8.80	8.00	8.04	8.00	0.76	.....	4.28	4.00	4.28	....	40.00	5845
3.38	3.30	8.97	8.00	8.51	8.00	0.46	.....	3.93	4.00	3.93	....	35.50	5686
3.24	3.30	9.50	8.00	8.72	8.00	0.78	.....	4.02	4.00	4.02	....	38.00	6222
1.79	1.65	9.82	9.00	9.08	9.00	0.74	.....	3.81	3.00	3.81	....	30.00	6275
1.85	1.65	10.27	9.00	9.13	9.00	1.14	.....	3.29	3.00	3.29	....	30.00	5253
1.71	1.65	9.86	9.00	9.20	9.00	0.66	.....	3.26	3.00	3.26	....	28.40	5139
1.75	1.65	10.12	9.00	9.48	9.00	0.64	.....	3.32	3.00	3.32	....	29.00	6396
1.97	1.65	10.55	9.00	9.59	9.00	0.96	.....	3.08	3.00	3.08	....	28.00	7401
1.51	1.23	17.39	17.00	13.15	10.00	4.24	7.00	5.82	5.00	5.82	....	35.20	7396

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6954	Baugh's Half Century Perfection Brand....	Cooperative Grange Milling Co., Titusville.....
6577	Baugh's Half Century Perfection Brand....	J. H. McWhirter, Mercer.....
6265	Baugh's Half Century Perfection Brand....	George H. Miller, Sidman.....
5833	Baugh's Half Century Perfection Brand....	J. Harvey Miller, Ligonier.....
6087	Baugh's Half Century Perfection Brand....	W. S. Minnium, Meadville.....
5864	Baugh's Half Century Perfection Brand....	O. W. Shortlidge, Lincoln University.....
6349	Baugh's Half Century Perfection Brand....	Smith & Neale, Waymart.....
6397	Baugh's Peruvian Guano Substitute.....	E. P. Wargo, Danville.....
7382	Baugh's Potato and Truck Special.....	Charles Adams, Catawissa.....
6199	Baugh's Potato and Truck Special.....	Samuel B. Kauffman, Hamburg.....
7033	Baugh's Potato and Truck Special.....	Samuel B. Kauffman, Hamburg.....
6392	Baugh's Potato and Truck Special.....	Oliver F. Kleckner, New Ringgold.....
7123	Baugh's Potato and Truck Special.....	Hosea Waterer, Philadelphia.....
5858	Baugh's 7% Potato Guano.....	Thomas K. George, Homer City.....
6199	Baugh's 7% Potato Guano.....	Mifflinburg Farmers' Exchange, Inc., Mifflinburg.....
5273	Baugh's 7% Potato Guano.....	James L. Pennock, Chatham.....
6451	Baugh's 7% Potato Guano.....	Smith & Neale, Waymart.....
5857	Baugh's Special Potato Manure.....	Thomas K. George, Homer City.....
7404	Baugh's Special Potato Manure.....	O. F. Kleckner, New Ringgold.....
5527	Baugh's Special Potato Manure.....	J. A. Marsteller, Hartstown.....
6169	Baugh's Special Potato Manure.....	Midland Milling & Supply Co., Midland.....
6267	Baugh's Special Potato Manure.....	George H. Miller, Sidman.....
5865	Baugh's Special Potato Manure.....	W. J. Pratt, Pocopson.....
5583	Baugh's Special Potato Manure.....	Routh & Swartzle, Clearfield.....
7115	Baugh's The Old Stand-By Dissolved Animal Base.....	Baugh & Sons Co., Philadelphia.....
5938	Baugh's The Old Stand-By Dissolved Animal Base.....	Ralph Fuller, Turbotville.....
6840	Baugh's The Old Stand-By Dissolved Animal Base.....	Ralph Fuller, Turbotville.....
7462	Baugh's The Old Stand-By Dissolved Animal Base.....	Chas. M. Harter, Wapwallopen.....
7274	Baugh's The Old Stand-By Dissolved Animal Base.....	J. H. Laird, Wylandville.....
5831	Baugh's The Old Stand-By Dissolved Animal Base.....	J. Harvey Miller, Ligonier.....
6086	Baugh's The Old Stand-By Dissolved Animal Base.....	W. S. Minnium, Meadville.....
5440	Baugh's The Old Stand-By Dissolved Animal Base.....	O. F. Smith, Lehighton.....
7321	Baugh's The Old Stand-By Dissolved Animal Base.....	Arthur Switzgabel, Brodheadsville.....
7113	Baugh's Wheat Fertilizer for Wheat and Grass.....	Baugh & Sons Co., Philadelphia.....
7230	Baugh's Wheat Fertilizer for Wheat and Grass.....	Brinton & Sons, West Chester.....
7433	Baugh's Wheat Fertilizer for Wheat and Grass.....	A. W. Eves, Millville.....
6808	Baugh's Wheat Fertilizer for Wheat and Grass.....	D. W. Faust & Son, Chambersburg.....
7576	Baugh's Wheat Fertilizer for Wheat and Grass.....	Greenville Coal & Ice Co., Greenville.....
7034	Baugh's Wheat Fertilizer for Wheat and Grass.....	Samuel B. Kauffman, Hamburg.....
7193	Baugh's Wheat Fertilizer for Wheat and Grass.....	Wm. McClenahan, Center Hall.....
7369	Baugh's Wheat Fertilizer for Wheat and Grass.....	J. Harvey Miller, Ligonier.....
7485	Baugh's Wheat Fertilizer for Wheat and Grass.....	James Shero, St. Benedict.....
5937	Baugh's Wrapper Leaf Brand..... W. S. CAPLES & SON, JOHNSTOWN, PA.	J. T. Wertz, Washington Boro.....
7477	Cambria's Standard Phosphate.....	W. S. Caples & Son, Johnstown.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
*2.48	3.30	9.67	8.00	8.97	8.00	0.70	....	7.52	7.00	7.52	....	42.40	6954
4.05	3.30	9.26	8.00	8.78	8.00	0.48	....	7.74	7.00	7.74	....	45.50	6577
3.49	3.30	8.85	8.00	8.01	8.00	0.84	....	7.39	7.00	7.39	....	....	6265
3.55	3.30	8.88	8.00	8.02	8.00	0.86	....	7.56	7.00	7.56	....	42.00	5833
3.31	3.30	9.21	8.00	8.41	8.00	0.80	....	7.04	7.00	7.04	....	40.00	6087
3.54	3.30	8.95	8.00	8.11	8.00	0.84	....	7.40	7.00	7.40	....	36.50	5864
3.35	3.30	9.31	8.00	8.55	8.00	0.76	....	7.13	7.00	6.60	0.53	....	6349
4.26	4.12	8.88	8.00	8.32	8.00	0.56	....	5.78	5.00	5.78	....	37.00	6397
3.34	3.30	9.44	8.00	8.56	8.00	0.88	....	6.32	6.00	6.32	....	34.00	7382
3.63	3.30	9.44	8.00	8.18	8.00	1.26	....	5.88	6.00	5.88	....	36.70	5199
3.25	3.30	9.82	8.00	8.90	8.00	0.92	....	6.00	6.00	6.00	....	....	7033
3.49	3.30	9.80	8.00	8.12	8.00	1.68	....	6.49	6.00	6.49	....	37.00	6392
3.17	3.30	9.61	8.00	8.81	8.00	0.80	....	5.94	6.00	5.94	....	65.00	7123
*4.92	5.76	7.62	6.00	7.12	6.00	0.50	....	6.05	5.00	6.05	....	46.00	5858
*5.36	5.76	7.14	6.00	6.80	6.00	0.34	....	*4.65	5.00	4.65	....	42.40	6199
5.65	5.76	6.89	6.00	6.59	6.00	0.30	....	5.15	5.00	5.15	....	....	5273
5.86	5.76	7.27	6.00	6.65	6.00	0.62	....	5.31	5.00	5.31	....	....	6451
1.74	1.65	8.46	8.00	*7.80	8.00	0.66	....	5.43	5.00	5.43	....	32.00	5857
1.80	1.65	9.49	8.00	8.89	8.00	0.60	....	5.10	5.00	5.10	....	29.00	7407
1.81	1.65	8.73	8.00	7.99	8.00	0.74	....	5.10	5.00	5.10	....	30.35	5527
1.79	1.65	8.80	8.00	8.20	8.00	0.60	....	5.05	5.00	5.05	....	32.00	6169
1.72	1.65	8.55	8.00	7.89	8.00	0.66	....	5.24	5.00	5.24	....	....	6267
1.78	1.65	9.16	8.00	8.00	8.00	1.16	....	5.01	5.00	5.01	....	29.00	5865
1.71	1.65	8.87	8.00	8.17	8.00	0.70	....	5.17	5.00	5.17	....	32.00	5583
1.65	1.65	13.39	12.00	12.45	12.00	0.94	....	2.50	2.00	2.50	....	....	7115
1.76	1.65	12.81	12.00	12.11	12.00	0.70	....	2.23	2.00	2.23	....	30.25	5938
1.90	1.65	13.19	12.00	12.11	12.00	1.08	....	2.16	2.00	2.16	....	28.25	6840
1.70	1.65	13.39	12.00	12.63	12.00	0.76	....	2.41	2.00	2.41	....	29.25	7462
1.90	1.65	13.33	12.00	12.41	12.00	0.92	....	2.12	2.00	2.12	....	34.00	7274
1.78	1.65	13.39	12.00	12.67	12.00	0.72	....	3.34	2.00	3.34	....	32.00	5831
1.91	1.65	13.27	12.00	11.87	12.00	1.40	....	2.38	2.00	2.38	....	32.00	6086
1.96	1.65	13.29	12.00	12.11	12.00	1.18	....	2.25	2.00	2.25	....	28.50	5440
1.87	1.65	13.55	12.00	12.61	12.00	0.94	....	2.41	2.00	2.41	....	30.00	7321
1.83	1.65	10.31	9.00	9.23	9.00	1.08	....	3.19	3.00	3.19	....	....	7113
1.68	1.65	10.20	9.00	9.30	9.00	0.90	....	3.19	3.00	3.19	....	....	7230
1.83	1.65	10.20	9.00	9.28	9.00	0.92	....	3.18	3.00	3.18	....	27.55	7433
1.68	1.65	10.29	9.00	9.97	9.00	0.32	....	3.16	3.00	3.16	....	27.70	6808
1.89	1.65	10.77	9.00	9.71	9.00	1.06	....	3.64	3.00	3.64	....	30.00	7576
1.85	1.65	10.59	9.00	9.43	9.00	1.16	....	3.25	3.00	3.25	....	....	7034
1.77	1.65	10.03	9.00	8.95	9.00	1.08	....	3.20	3.00	3.20	....	27.00	7193
1.87	1.65	10.73	9.00	9.87	9.00	0.86	....	2.93	3.00	2.93	....	31.00	7369
1.72	1.65	10.20	9.00	9.38	9.00	0.82	....	3.44	3.00	3.44	....	....	7485
3.41	3.30	6.03	5.00	5.23	5.00	0.80	....	6.75	6.00	....	6.75	....	5937
1.82	2.00	12.13	10.00	8.07	8.00	4.06	2.00	5.37	4.00	5.37	....	32.00	7477

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
CARLISLE FERTILIZER WORKS, INC., CARLISLE, PA.		
5376	Carlisle 1-9-4	W. B. Barnitz, Carlisle
5379	Carlisle 2-8-5	W. B. Barnitz, Carlisle
5375	Carlisle 2-8-10	W. B. Barnitz, Carlisle
CENTRAL CHEMICAL COMPANY, HAGERSTOWN, MD.		
5948	Gro-All Big Thirty 4-16-10	Central Chemical Co., Milton
6712	Gro-All Big Thirty 4-16-10	Central Chemical Co., Milton
5502	Gro-All Big Thirty 4-16-10	H. I. Gray, Honey Grove
7299	Gro-All Big Thirty 4-16-10	Paul M. Hagenbuch, Montgomery
7220	Gro-All Big Thirty 4-16-10	R. K. Yoder, Belleville
5491	Gro-All Crown Jewell 1-9-4	Francis Baker, Everett
6743	Gro-All Crown Jewell 1-9-4	Francis Baker, Everett
5949	Gro-All Crown Jewell 1-9-4	Central Chemical Co., Milton
6709	Gro-All Crown Jewell 1-9-4	Central Chemical Co., Milton
7301	Gro-All Crown Jewell 1-9-4	Paul M. Hagenbuch, Montgomery
5688	Gro-All Crown Jewell 1-9-4	Juniata County Grange, Port Royal
6497	Gro-All Crown Jewell 1-9-4	H. M. Mohler, Carrolltown
6825	Gro-All Crown Jewell 1-9-4	Strickler & Gillan, Greencastle
6272	Gro-All Crown Jewell 1-9-4	E. S. Thomas, Holsopple
7503	Gro-All Excelsior 2-8-5	Brunbaugh & Nissley, Martinsburg
5944	Gro-All Excelsior 2-8-5	Central Chemical Co., Milton
6704	Gro-All Excelsior 2-8-5	Central Chemical Co., Milton
6715	Gro-All Excelsior 2-8-5	Charles Goldberg, Lehighton
5503	Gro-All Excelsior 2-8-5	H. I. Gray, Honey Grove
7303	Gro-All Excelsior 2-8-5	Paul M. Hagenbuch, Montgomery
6454	Gro-All Excelsior 2-8-5	A. W. Kenyon, Carbondale
6827	Gro-All Excelsior 2-8-5	Strickler & Gillan, Greencastle
6271	Gro-All Excelsior 2-8-5	E. S. Thomas, Holsopple
7221	Gro-All Excelsior 2-8-5	R. K. Yoder, Belleville
6706	Gro-All Fish and Potash Compound 1 $\frac{1}{4}$ -9-4	Central Chemical Co., Milton
6440	Gro-All Fish and Potash Compound 1 $\frac{1}{4}$ -9-4	Paul Hagenbuch, Montgomery
5105	Gro-All Fish and Potash Compound 1 $\frac{1}{4}$ -9-4	Mercersburg Grain & Supply Co., Mercersburg
5947	Gro-All Golden Sheaf 3-12-5	Central Chemical Co., Milton
6708	Gro-All Golden Sheaf 3-12-5	Central Chemical Co., Milton
6716	Gro-All Golden Sheaf 3-12-5	Charles Goldberg, Lehighton
5951	Gro-All Grain and Grass Grower 2-12-2	Central Chemical Co., Milton
6710	Gro-All Grain and Grass Grower 2-12-2	Central Chemical Co., Milton
6714	Gro-All Grain and Grass Grower 2-12-2	Charles Goldberg, Lehighton
6826	Gro-All Grain and Grass Grower 2-12-2	Strickler & Gillan, Greencastle
5945	Gro-All Imperial 2-8-10	Central Chemical Co., Milton
6705	Gro-All Imperial 2-8-10	Central Chemical Co., Milton
6612	Gro-All Imperial 2-8-10	Abe E. Engler, Wapwallopen
6713	Gro-All Imperial 2-8-10	Charles Goldberg, Lehighton
6438	Gro-All Imperial 2-8-10	Paul M. Hagenbuch, Montgomery
7304	Gro-All Imperial 2-8-10	Paul M. Hagenbuch, Montgomery
6499	Gro-All Imperial 2-8-10	H. M. Mohler, Carrolltown
6298	Gro-All Imperial 2-8-10	Ross Snyder, Friedons
6888	Gro-All Imperial 2-8-10	Strickler & Gillan, Greencastle
6131	Gro-All Imperial 2-8-10	R. K. Yoder, Belleville
7219	Gro-All Imperial 2-8-10	R. K. Yoder, Belleville
5492	Gro-All Potato Special 4-8-7	Francis Baker, Everett
5943	Gro-All Potato Special 4-8-7	Central Chemical Co., Milton
5104	Gro-All Potato Special 4-8-7	Mercersburg Grain & Supply Co., Mercersburg
6270	Gro-All Potato Special 4-8-7	E. S. Thomas, Holsopple
5490	Gro-All Super Fish 2-12-6	Francis Baker, Everett
7502	Gro-All Super Fish 2-12-6	Brunbaugh & Nissley, Martinsburg
5952	Gro-All Super Fish 2-12-6	Central Chemical Co., Milton
6613	Gro-All Super Fish 2-12-6	Abe E. Engler, Wapwallopen
6717	Gro-All Super Fish 2-12-6	Charles Goldberg, Lehighton
6439	Gro-All Super Fish 2-12-6	Paul M. Hagenbuch, Montgomery
7302	Gro-All Super Fish 2-12-6	Paul M. Hagenbuch, Montgomery
6496	Gro-All Super Fish 2-12-6	H. M. Mohler, Carrolltown
7214	Gro-All Super Fish 2-12-6	R. K. Yoder, Belleville

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.07	0.82	9.98	9.50	9.12	9.00	0.86	0.50	4.90	4.00	4.90	.....	.....	5376
1.86	1.64	9.64	8.50	8.64	8.00	1.00	0.50	5.74	5.00	5.74	.....	.....	5379
1.85	1.64	8.71	8.50	8.05	8.00	0.66	0.50	11.98	10.00	11.98	.....	.....	5375
3.34	3.29	16.89	16.50	16.23	16.00	0.66	0.50	10.00	10.00	10.00	.....	50.25	5948
3.24	3.29	16.37	16.50	15.81	16.00	0.56	0.50	10.80	10.00	10.80	.....	50.22	6712
*2.93	3.29	17.68	16.50	17.02	16.00	0.66	0.50	9.81	10.00	9.81	.....	47.01	5502
3.30	3.29	17.07	16.50	16.53	16.00	0.54	0.50	9.84	10.00	9.84	.....	54.00	7299
*2.92	3.29	15.49	16.50	*14.66	16.00	0.83	0.50	*8.39	10.00	8.39	.....	40.00	7220
1.03	0.82	10.13	9.50	9.75	9.00	0.38	0.50	*3.68	4.00	3.68	.....	28.00	5491
1.03	0.82	9.87	9.50	9.01	9.00	0.86	0.50	3.94	4.00	3.94	.....	27.00	6743
1.23	0.82	9.91	9.50	8.81	9.00	1.10	0.50	5.14	4.00	5.14	.....	26.00	5949
0.90	0.82	9.58	9.50	8.98	9.00	0.60	0.50	4.52	4.00	4.52	.....	25.11	6709
0.95	0.82	10.15	9.50	9.07	9.00	1.08	0.50	4.26	4.00	4.26	.....	27.00	7301
1.04	0.82	10.14	9.50	9.74	9.00	0.40	0.50	4.05	4.00	4.05	.....	.....	5688
1.45	0.82	9.95	9.50	9.45	9.00	0.50	0.50	4.70	4.00	4.70	.....	25.70	6497
0.82	0.82	11.75	9.50	11.37	9.00	0.38	0.50	*3.64	4.00	3.64	.....	25.50	6825
0.94	0.82	9.50	9.50	9.20	9.00	0.30	0.50	*3.63	4.00	3.63	.....	28.15	6272
1.83	1.65	8.99	8.50	8.47	8.00	0.52	0.50	5.36	5.00	5.36	.....	31.65	7503
1.72	1.65	8.27	8.50	*7.39	8.00	0.88	0.50	5.78	5.00	5.78	.....	28.85	5944
1.53	1.65	8.90	8.50	8.34	8.00	0.56	0.50	5.43	5.00	5.43	.....	28.37	6704
1.67	1.65	9.24	8.50	8.34	8.00	0.90	0.50	4.97	5.00	4.97	.....	26.65	6715
1.70	1.65	8.88	8.50	8.28	8.00	0.60	0.50	5.33	5.00	5.33	.....	29.41	5503
1.81	1.65	9.53	8.50	8.75	8.00	0.78	0.50	5.15	5.00	5.15	.....	30.50	7303
1.58	1.65	9.03	8.50	8.05	8.00	0.98	0.50	5.00	5.00	5.00	.....	30.00	6454
1.76	1.65	8.57	8.50	8.01	8.00	0.56	0.50	5.06	5.00	5.06	.....	28.00	6827
1.71	1.65	8.89	8.50	8.55	8.00	0.34	0.50	*4.74	5.00	4.74	.....	31.50	6271
1.77	1.65	9.18	8.50	8.44	8.00	0.74	0.50	4.93	5.00	4.93	.....	29.25	7221
1.11	1.03	9.95	9.50	9.17	9.00	0.78	0.50	4.44	4.00	4.44	.....	27.90	6706
1.21	1.03	10.07	9.50	*7.90	9.00	2.17	0.50	4.59	4.00	4.59	.....	30.00	6440
1.37	1.03	9.32	9.50	*8.68	9.00	0.64	0.50	4.33	4.00	4.33	.....	.....	5105
2.62	2.47	13.86	12.50	12.34	12.00	1.52	0.50	*3.60	5.00	3.60	.....	36.75	5947
2.57	2.47	13.46	12.50	12.34	12.00	1.12	0.50	5.24	5.00	5.24	.....	36.73	6708
2.45	2.47	13.55	12.50	12.67	12.00	0.88	0.50	5.31	5.00	5.31	.....	35.10	6716
1.73	1.65	13.07	12.50	12.31	12.00	0.76	0.50	2.12	2.00	2.12	.....	29.30	5951
1.75	1.65	12.92	12.50	12.16	12.00	0.76	0.50	2.10	2.00	2.10	.....	28.83	6710
1.72	1.65	13.51	12.50	12.47	12.00	1.04	0.50	2.21	2.00	2.21	.....	27.05	6714
1.55	1.65	12.32	12.50	11.84	12.00	0.48	0.50	2.52	2.00	2.52	.....	30.50	6826
1.83	1.65	9.22	8.50	8.68	8.00	0.54	0.50	*9.49	10.00	9.49	.....	33.50	5945
1.73	1.65	9.03	8.50	8.73	8.00	0.30	0.50	9.85	10.00	9.85	.....	33.01	6705
2.40	1.65	9.18	8.50	8.78	8.00	0.40	0.50	*9.59	10.00	9.59	.....	34.80	6612
1.65	1.65	9.31	8.50	8.35	8.00	0.96	0.50	*9.75	10.00	9.75	.....	31.50	6713
1.83	1.65	8.98	8.50	8.52	8.00	0.46	0.50	*9.65	10.00	9.65	.....	36.00	6438
1.70	1.65	9.31	8.50	8.93	8.00	0.38	0.50	9.83	10.00	9.83	.....	35.50	7304
1.91	1.65	9.57	8.50	9.13	8.00	0.44	0.50	10.17	10.00	10.17	.....	33.50	6499
1.71	1.65	9.25	8.50	8.39	8.00	0.86	0.50	9.85	10.00	9.85	.....	.....	6298
1.60	1.65	7.92	8.50	7.81	8.00	0.11	0.50	10.97	10.00	10.97	.....	34.00	6888
1.67	1.65	9.32	8.50	8.58	8.00	0.74	0.50	9.89	10.00	9.89	.....	34.75	6131
1.65	1.65	9.18	8.50	8.18	8.00	1.00	0.50	10.36	10.00	10.36	.....	33.90	7219
3.35	3.29	8.70	8.50	8.28	8.00	0.42	0.50	*6.77	7.00	6.77	.....	40.00	5492
3.30	3.29	8.62	8.50	8.04	8.00	0.58	0.50	7.65	7.00	7.65	.....	36.75	5943
3.25	3.29	8.80	8.50	8.40	8.00	0.40	0.50	7.10	7.00	7.10	.....	.....	5104
3.14	3.29	8.80	8.50	8.26	8.00	0.54	0.50	7.33	7.00	7.33	.....	39.35	6270
1.60	1.65	13.05	12.50	12.25	12.00	0.80	0.50	5.91	6.00	5.91	.....	38.00	5490
1.80	1.65	13.52	12.50	12.20	12.00	1.32	0.50	6.91	6.00	6.91	.....	39.90	7502
1.80	1.65	12.65	12.50	12.39	12.00	0.26	0.50	6.15	6.00	6.15	.....	35.50	5952
1.80	1.65	13.28	12.50	12.36	12.00	0.92	0.50	6.91	6.00	6.91	.....	36.70	6613
1.77	1.65	13.52	12.50	12.36	12.00	1.16	0.50	6.01	6.00	6.01	.....	34.10	6717
1.80	1.65	12.82	12.50	12.32	12.00	0.50	0.50	6.51	6.00	6.51	.....	38.00	6439
1.81	1.65	12.96	12.50	12.32	12.00	0.64	0.50	6.67	6.00	6.67	.....	38.00	7302
1.87	1.65	12.85	12.50	11.89	12.00	0.96	0.50	6.34	6.00	6.34	.....	36.00	6496
1.66	1.65	13.43	12.50	12.13	12.00	1.30	0.50	6.70	6.00	6.70	.....	36.15	7214

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5950	Gro-All Top Dresser with Potash 7-8-3.....	Central Chemical Co., Milton.....
6611	Gro-All Top Dresser with Potash 7-8-3.....	Abe E. Engler, Wapwallopen.....
6441	Gro-All Top Dresser with Potash 7-8-3.....	Paul M. Hagenbuch, Montgomery.....
	<b>CLAY &amp; SON, STRATFORD LONDON, ENGLAND</b>	
6622	Clay's Fertilizer.....	Beckert Seed Store, Pittsburgh.....
7124	Clay's Fertilizer.....	Hosea Waterer, Philadelphia.....
	<b>CO-OPERATIVE G. L. F. EXCHANGE, INC., NEW YORK, N. Y.</b>	
5759	G. L. F. Commercial Fertilizer 2-8-10.....	Dayton Milling Co., Towanda.....
5190	G. L. F. Commercial Fertilizer 2-8-10.....	Union City Cooperative Association, Union City.....
5189	G. L. F. Commercial Fertilizer 2-12-2.....	Union City Cooperative Association, Union City.....
	<b>DELAWARE RIVER CHEMICAL WORKS, BALTIMORE, MD.</b>	
5404	Delaware River 4-8-4.....	D. E. Goodenough, Coudersport.....
5403	Delaware River 4-12-4.....	D. E. Goodenough, Coudersport.....
	<b>DIAMOND FERTILIZER CO., BALTIMORE, MD.</b>	
5880	Diamond All Crop Grower.....	Oxford Grain & Hay Co., Oxford.....
	<b>THE DUNGAN FERTILIZER CO., DOYLESTOWN, PA.</b>	
6644	Farmer's Favorite.....	The Dungan Fertilizer Co., Doylestown.....
6643	Pebble Hill Animal Mixture.....	The Dungan Fertilizer Co., Doylestown.....
6645	Potato Manure.....	The Dungan Fertilizer Co., Doylestown.....
	<b>EASTERN STATES FARMERS' EX- CHANGE, SPRINGFIELD, MASS.</b>	
5497	Eastern States 2-12-4.....	Frank Harris, East Waterford.....
5498	Eastern States 3-18-6.....	Frank Harris, East Waterford.....
6534	Eastern States 7-6-5.....	Ben. Levan, Catawissa.....
	<b>AMOS EBY &amp; CO., LEAMAN PLACE, PA.</b>	
5031	Eby Pequea Ammoniated.....	Amos Eby & Co., Leaman Place.....
7162	Eby Pequea Ammoniated.....	Amos Eby & Co., Leaman Place.....
5036	Eby Pequea Economy.....	Amos Eby & Co., Leaman Place.....
7163	Eby Pequea Economy.....	Amos Eby & Co., Leaman Place.....
5035	Eby Pequea High Grade.....	Amos Eby & Co., Leaman Place.....
5034	Eby Pequea Leaf Brand.....	Amos Eby & Co., Leaman Place.....
5032	Eby Pequea Special Potato.....	Amos Eby & Co., Leaman Place.....
5033	Eby Pequea Valley Fertilizer.....	Amos Eby & Co., Leaman Place.....
	<b>ERIE REDUCTION CO., ERIE, PA.</b>	
5544	Erie Corn and Oats Special.....	Mark F. Briggs & Son, Waterford.....
5183	Erie Potato and Truck Special.....	Nickle Plate Flour Mills, Wesleyville.....
5543	General Crop Special.....	Mark F. Briggs & Son, Waterford.....
7516	General Crop Special.....	West Side Feed & Fuel Co., Erie.....
	<b>FARMERS' FERTILIZER AND FEED CO., WESTMINSTER, MD.</b>	
5701	Farmer's Favorite Fertilizer.....	C. E. Gobrecht, Hanover.....
5699	Farmer's Potato Grower Fertilizer.....	C. E. Gobrecht, Hanover.....
7148	Farmer's Potato Grower Fertilizer.....	C. E. Gobrecht, Hanover.....
5700	XXX Phosphate.....	C. E. Gobrecht, Hanover.....
7146	XXX Phosphate.....	C. E. Gobrecht, Hanover.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
6.28	5.76	8.16	8.50	8.04	8.00	0.12	0.50	3.54	3.00	3.54	....	41.85	5950
5.98	5.76	7.72	8.50	*7.58	8.00	0.14	0.50	6.56	3.00	6.56	....	42.25	6611
5.73	5.76	8.62	8.50	8.46	8.00	0.16	0.50	3.24	3.00	3.24	....	45.00	6441
5.58	**4.00	14.55	7.20	12.46	**1.15	2.09	6.05	2.19	*0.10	....	2.19	†280.00	6622
5.06	4.20	12.91	11.00	8.93	8.50	3.98	2.50	3.30	2.00	....	3.30	†...	7124
1.69	1.64	8.80	8.50	8.16	8.00	0.64	0.50	9.81	10.00	9.81	....	...	5759
1.85	1.64	8.61	8.50	8.25	8.00	0.36	0.50	10.34	10.00	10.34	....	31.00	5190
2.13	1.64	12.63	12.50	12.15	12.00	0.48	0.50	2.60	2.00	2.60	....	28.00	5189
3.33	3.30	9.06	8.00	8.30	8.00	0.76	....	4.17	4.00	4.17	....	38.25	5404
3.51	3.30	13.05	12.00	12.25	12.00	0.80	....	4.29	4.00	4.29	....	41.60	5403
1.86	1.65	9.54	9.00	8.98	8.00	0.56	1.00	5.35	5.00	5.35	...	27.00	5880
1.22	0.80	9.57	9.00	*7.15	8.00	2.42	1.00	6.48	5.00	6.48	....	26.00	6644
3.09	3.20	11.35	11.00	*8.33	9.00	3.02	2.00	5.00	5.00	5.00	....	37.06	6643
1.88	1.60	11.28	10.00	7.98	8.00	3.30	2.00	10.97	10.00	10.97	....	32.00	6645
1.97	1.65	14.11	12.50	13.41	12.00	0.70	0.50	4.71	4.00	1.80	2.91	31.80	5497
*1.58	2.47	16.79	18.50	*16.24	18.00	0.55	0.50	7.55	6.00	7.55	....	42.40	5498
*5.46	5.76	9.01	6.25	8.79	6.00	0.22	0.25	5.55	5.00	5.55	....	41.10	6534
0.96	0.82	11.89	12.00	11.17	10.00	0.72	2.00	2.96	3.00	2.96	....	24.50	5031
1.02	0.82	11.51	12.00	10.65	10.00	0.86	2.00	3.99	3.00	3.99	....	...	7162
1.86	1.64	9.99	11.00	8.97	9.00	1.02	2.00	3.11	3.00	3.11	....	27.00	5036
1.86	1.64	11.48	11.00	9.86	9.00	1.62	2.00	3.32	3.00	3.32	....	...	7163
3.42	3.29	8.05	8.00	6.35	6.00	1.70	2.00	5.04	5.00	5.04	....	36.50	5035
4.03	4.11	7.54	8.00	6.44	6.00	1.10	2.00	6.30	6.00	...	6.30	45.50	5034
2.57	2.46	9.69	10.00	8.35	8.00	1.34	2.00	7.35	7.00	7.35	....	34.50	5032
1.76	1.64	9.57	10.00	8.77	8.00	0.80	2.00	*9.00	10.00	9.00	...	31.50	5033
1.06	0.82	9.95	11.00	9.21	9.00	0.74	2.00	4.09	4.00	4.09	....	29.75	5544
1.82	1.65	8.71	10.00	7.89	8.00	0.82	2.00	10.60	10.00	10.60	....	36.60	5183
1.68	1.65	13.66	14.00	12.82	12.00	0.84	2.00	2.53	2.60	2.53	....	33.25	5543
1.87	1.65	13.46	14.00	12.40	12.00	1.06	2.00	2.51	2.60	2.51	....	32.00	7516
1.21	0.82	10.65	11.00	9.95	10.00	0.70	1.00	5.96	5.00	5.96	....	24.25	5701
2.01	1.64	9.46	9.00	8.96	8.00	0.50	1.00	5.28	5.00	5.28	....	26.00	5699
1.80	1.64	8.98	9.00	8.30	8.00	0.68	1.00	5.50	5.00	5.50	....	...	7148
1.00	0.82	10.59	10.00	10.07	9.00	0.52	1.00	4.55	4.00	5.55	....	23.00	5700
1.04	0.82	10.38	10.00	9.88	9.00	0.50	1.00	4.88	4.00	4.88	....	...	7146

\*Deficient.

†Excluded from average.

\*\*Registered Guarantees 5.1-8.5-2.

‡Sold at the rate of \$6.25 for 56 lbs.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
<b>FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.</b>		
6128	Farmers' 3-12-5.	Belleville Flour Mills, Belleville.
6202	Farmers' 3-12-5.	W. L. Burd & Co., Swengel.
5022	Farmers' 3-12-5.	Farmers Fertilizer Works, Elizabethtown.
7155	Farmers' 3-12-5.	Farmers Fertilizer Works, Elizabethtown.
5481	Farmers' 3-12-5.	Ed. Furry, New Enterprise.
5666	Farmers' Best Yet.	N. G. Adams, Paxinos.
7389	Farmers' Best Yet.	N. G. Adams, Paxinos.
6127	Farmers' Best Yet.	Belleville Flour Mills, Belleville.
5019	Farmers' Best Yet.	Farmers Fertilizer Works, Elizabethtown.
7156	Farmers' Best Yet.	Farmers Fertilizer Works, Elizabethtown.
5205	Farmers' Best Yet.	Howard S. Hartman, Hamburg.
5020	Farmers' Club.	Farmers Fertilizer Works, Elizabethtown.
7157	Farmers' Club.	Farmers Fertilizer Works, Elizabethtown.
5480	Farmers' Club.	Ed. Furry, New Enterprise.
5025	Farmers' Gilt Edge Potato and Truck.	Farmers Fertilizer Works, Elizabethtown.
5483	Farmers' Gilt Edge Potato and Truck.	Ed. Furry, New Enterprise.
739C	Farmers' Golden Sheaf.	N. G. Adams, Paxinos.
6201	Farmers' Golden Sheaf.	W. L. Burd & Co., Swengel.
5023	Farmers' Golden Sheaf.	Farmers Fertilizer Works, Elizabethtown.
7159	Farmers' Golden Sheaf.	Farmers Fertilizer Works, Elizabethtown.
5202	Farmers' Golden Sheaf.	Jeremiah Kauffman, Berne.
7228	Farmers' I. X. L.	Belleville Flour Mills, Belleville.
5021	Farmers' I. X. L.	Farmers Fertilizer Works, Elizabethtown.
7153	Farmers' I. X. L.	Farmers Fertilizer Works, Elizabethtown.
6378	Farmers' I. X. L.	W. O. Rearick, Milroy.
5026	Farmers' Tobacco Special.	Farmers Fertilizer Works, Elizabethtown.
5665	Grain and Grass Special.	N. G. Adams, Paxinos.
5015	Grain and Grass Special.	Farmers Fertilizer Works, Elizabethtown.
7152	Grain and Grass Special.	Farmers Fertilizer Works, Elizabethtown.
6377	Grain and Grass Special.	W. O. Rearick, Milroy.
6870	Grain and Grass Special.	George H. Steining, Middleburg.
6194	Pride of Donegal.	F. T. Baker, Lewisburg.
6126	Pride of Donegal.	Belleville Flour Mills, Belleville.
5018	Pride of Donegal.	Farmers Fertilizer Works, Elizabethtown.
7158	Pride of Donegal.	Farmers Fertilizer Works, Elizabethtown.
5206	Pride of Donegal.	Howard S. Hartman, Hamburg.
7065	Pride of Donegal.	W. O. Rearick, Milroy.
<b>W. C. FOLLMER, BENTON, PA.</b>		
5734	2-12-5 Phosphate.	W. C. Follmer, Benton.
6975	2-12-5 Phosphate.	W. C. Follmer, Benton.
<b>GASH-STULL CO., CHESTER, PA.</b>		
6553	Young's Formula.	Simpson Brothers, Norristown.
<b>JOSEPH R. GAWTHROP, KENNETT SQUARE, PA.</b>		
5262	Ammoniated Special Phosphate for Corn, Oats and Wheat.	Joseph R. Gawthrop, Kennett Square.
7234	Ammoniated Special Phosphate for Corn, Oats and Wheat.	Joseph R. Gawthrop, Kennett Square.
5260	Champion Fertilizer for Wheat and Grass.	Joseph R. Gawthrop, Kennett Square.
7232	Champion Fertilizer for Wheat and Grass.	Joseph R. Gawthrop, Kennett Square.
5263	Special Potato Phosphate.	Joseph R. Gawthrop, Kennett Square.
5261	Sure Crop Phosphate.	Joseph R. Gawthrop, Kennett Square.
7233	Sure Crop Phosphate.	Joseph R. Gawthrop, Kennett Square.
<b>A. D. GRAHAM &amp; CO., INC., SOMERSET, PA.</b>		
7481	Beaver Brand 2-8-10.	A. D. Graham & Co., Inc., Somerset.
<b>THE GRASSELLI CHEMICAL CO., CLEVELAND, OHIO</b>		
6205	Grasselli Odorless Plant Food.	W. W. Kalb, Sunbury.

## FERTILIZERS—Continued.

NITROGEN		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
2.49	2.46	12.59	12.00	12.31	12.00	0.28	....	5.15	5.00	5.15	....	....	6128
2.52	2.46	13.78	12.00	13.34	12.00	0.44	....	5.37	5.00	5.37	....	33.75	6202
2.74	2.46	13.39	12.00	12.95	12.00	0.44	....	5.40	5.00	5.40	....	33.00	5022
2.56	2.46	13.15	12.00	12.81	12.00	0.34	....	5.13	5.00	5.13	....	33.00	7155
*2.08	2.46	13.70	12.00	13.38	12.00	0.32	....	6.01	5.00	6.01	....	34.15	5481
1.72	1.64	8.80	8.50	8.56	8.00	0.24	0.50	10.76	10.00	10.76	....	35.00	5666
1.86	1.64	9.48	8.50	9.04	8.00	0.44	0.50	10.75	10.00	10.75	....	35.00	7389
1.83	1.64	9.20	8.50	8.96	8.00	0.24	0.50	9.93	10.00	9.93	....	35.00	6127
1.83	1.64	8.98	8.50	8.82	8.00	0.16	0.50	10.01	10.00	10.01	....	32.00	5019
1.81	1.64	9.21	8.50	8.73	8.00	0.48	0.50	10.35	10.00	10.35	....	32.00	7156
1.69	1.64	9.11	9.00	8.99	8.00	0.12	1.00	10.23	10.60	10.23	....	35.10	5205
2.40	2.46	9.95	9.00	9.63	8.00	0.32	1.00	5.53	5.00	5.53	....	32.00	5020
2.40	2.46	11.12	8.50	9.90	8.00	1.22	0.50	5.60	5.00	5.66	....	32.00	7157
2.43	2.46	9.72	9.00	9.38	8.00	0.34	1.00	5.64	5.00	5.64	....	31.90	5480
3.50	3.28	10.64	8.50	9.86	8.60	0.78	0.50	7.09	7.00	7.09	....	25.00	5025
3.32	3.28	10.56	8.50	9.22	8.00	1.34	0.50	7.67	7.00	7.67	....	36.35	5483
1.82	1.64	9.83	8.50	9.67	8.00	0.16	0.50	5.57	5.00	5.57	....	30.00	7390
1.68	1.64	9.44	8.50	9.06	8.00	0.38	0.50	5.66	5.00	5.66	....	28.35	6201
1.79	1.64	9.12	8.50	8.88	8.00	0.24	0.50	5.86	5.00	5.86	....	28.50	5023
1.72	1.64	9.83	8.50	9.59	8.00	0.24	0.50	5.43	5.00	5.43	....	27.00	7159
1.80	1.64	9.03	8.50	8.83	8.00	0.20	0.50	5.65	5.00	5.65	....	30.45	5202
1.71	1.64	12.95	12.00	12.53	12.00	0.42	....	4.50	4.00	4.50	....	....	7228
1.89	1.64	12.70	12.00	12.36	12.00	0.34	....	4.12	4.00	4.12	....	29.00	5021
1.65	1.64	13.52	12.00	12.90	12.00	0.62	....	4.42	4.00	4.42	....	29.00	7153
1.71	1.64	13.01	12.00	12.73	12.00	0.28	....	4.08	4.00	4.08	....	....	6378
4.25	4.10	6.12	5.00	5.76	4.00	0.36	1.00	5.67	5.00	....	5.67	44.00	5026
1.05	0.82	9.95	9.50	9.69	9.00	0.26	0.50	4.21	4.00	4.21	....	28.00	5665
0.96	0.82	10.20	9.50	10.00	9.00	0.20	0.50	4.42	4.00	4.42	....	25.00	5015
1.07	0.82	10.63	9.50	10.47	9.00	0.16	0.50	4.58	4.00	4.58	....	24.00	7152
1.02	0.82	10.46	9.50	10.24	9.00	0.22	0.50	4.09	4.00	4.09	....	....	6377
0.97	0.82	10.82	9.50	10.66	9.00	0.16	0.50	4.67	4.00	4.67	....	26.00	6870
1.85	1.64	9.95	9.50	9.87	9.00	0.08	0.50	3.58	3.00	3.58	....	31.00	6194
1.86	1.64	10.46	9.50	9.96	9.00	0.50	0.50	3.40	3.00	3.40	....	30.00	6126
1.86	1.64	9.89	9.50	9.73	9.00	0.16	0.50	3.57	3.00	3.57	....	27.60	5018
1.82	1.64	10.42	9.50	9.86	9.00	0.56	0.50	3.39	3.00	3.39	....	26.50	7158
1.65	1.64	10.10	9.50	9.80	9.00	0.30	0.50	4.07	3.00	4.07	....	29.30	5206
1.82	1.64	9.63	9.50	9.37	9.00	0.26	0.50	3.74	3.00	3.74	....	26.56	7065
1.50	1.65	12.95	12.50	12.67	12.00	0.28	0.50	*4.58	5.00	4.58	..	30.00	5734
1.80	1.65	14.22	12.50	12.74	12.00	1.48	0.50	4.98	5.00	4.98	..	30.00	6975
6.47	6.58	7.58	7.50	7.32	7.00	0.26	0.50	6.03	6.00	6.03	...	100.00	6553
1.95	1.60	9.49	8.00	8.91	8.00	0.58	....	4.72	4.00	4.72	..	34.00	5262
2.00	1.60	9.90	8.00	9.44	8.00	0.46	....	4.97	4.00	4.97	....	34.00	7234
2.31	1.60	12.46	9.00	9.84	9.00	2.62	....	3.43	3.00	3.43	....	37.00	5260
1.86	1.60	11.29	9.00	10.13	9.00	1.16	....	4.11	3.00	4.11	....	37.00	7232
1.40	1.20	8.30	7.50	7.74	7.50	0.56	....	5.78	5.00	2.50	3.28	34.00	5263
1.15	0.80	13.97	12.00	13.11	12.60	0.86	....	1.57	1.00	1.10	0.47	30.00	5261
1.26	0.80	13.29	12.00	12.41	12.00	0.88	....	2.41	1.00	2.41	....	29.00	7233
1.58	1.65	9.06	8.50	8.80	8.00	0.26	0.50	10.45	10.00	10.45	....	30.50	7481
4.15	4.12	16.17	15.00	14.61	13.00	1.56	2.00	4.01	4.00	4.01	....	75.00	6205

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	GRIFFITH & BOYD CO., BALTIMORE, MD.	
5646	Griffith & Boyd Co.'s Farmers' Potato Manure	R. S. Blaine, Turbotville.
7376	Griffith & Boyd Co.'s Farmer's Potato Manure	Dayton Milling Co., Dayton.
5597	Griffith & Boyd Co.'s Farmers' Potato Manure	G. R. McGee, Big Run.
7017	Griffith & Boyd Co.'s Farmers' Potato Manure	G. R. McGee, Big Run.
5861	Griffith & Boyd Co.'s Farmers' Potato Manure	Shortlidge Brothers, West Grove.
5794	Griffith & Boyd Co.'s Farmers' Potato Manure	H. M. Smith, Bellefonte.
5649	Griffith & Boyd Co.'s Fish, Blood and Potash	R. S. Blaine, Turbotville.
7377	Griffith & Boyd Co.'s Fish, Blood and Potash	Dayton Milling Co., Dayton.
7032	Griffith & Boyd Co.'s Fish, Blood and Potash	Howard E. Degler, Shartlesville.
7426	Griffith & Boyd Co.'s Fish, Blood and Potash	N. A. Dinger, Mayport.
7084	Griffith & Boyd Co.'s Fish, Blood and Potash	F. W. Hoburg, Etna.
6627	Griffith & Boyd Co.'s Fish, Blood and Potash	Hoburg Brothers, Etna.
5595	Griffith & Boyd Co.'s Fish, Blood and Potash	G. R. McGee, Big Run.
7253	Griffith & Boyd Co.'s Fish, Blood and Potash	Passmore & Co., Nottingham.
7281	Griffith & Boyd Co.'s Fish, Blood and Potash	W. M. Templeton & Sons, Houston.
6642	Griffith & Boyd Co.'s Fish, Blood and Potash	W. E. Wells, Parker Ford.
5648	Griffith & Boyd Co.'s Fish and Potash Guano	R. S. Blaine, Turbotville.
6834	Griffith & Boyd Co.'s Fish and Potash Guano	R. S. Blaine, Turbotville.
5391	Griffith & Boyd Co.'s Fish and Potash Guano	J. E. Callahan & Sons, Montoursville.
5592	Griffith & Boyd Co.'s Fish and Potash Guano	G. R. McGee, Big Run.
7018	Griffith & Boyd Co.'s Fish and Potash Guano	G. R. McGee, Big Run.
6239	Griffith & Boyd Co.'s Fish and Potash Guano	Stultz Brothers, Hollidaysburg.
6966	Griffith & Boyd Co.'s Gilt Edge Crop Guano.	Alex. Hamilton, Venango.
7086	Griffith & Boyd Co.'s Gilt Edge Crop Guano.	F. W. Hoburg, Etna.
6628	Griffith & Boyd Co.'s Gilt Edge Crop Guano.	Hoburg Brothers, Etna.
5182	Griffith & Boyd Co.'s Gilt Edge Crop Guano.	Mead & Bannister, North East.
7383	Griffith & Boyd Co.'s Gilt Edge Crop Guano.	D. M. Reeder, Catawissa.
5736	Griffith & Boyd Co.'s Gilt Edge Crop Guano.	J. N. Zeisloft, Bloomsburg.
5180	Griffith & Boyd Co.'s Grape Special.	Mead & Bannister, North East.
6240	Griffith & Boyd Co.'s Growers Favorite.	Stultz Brothers, Hollidaysburg.
6254	Griffith & Boyd Co.'s High Grade Economizer.	Homer Dilling, Martinsburg.
7298	Griffith & Boyd Co.'s High Grade Economizer.	Cornelius Harman, Montgomery.
6400	Griffith & Boyd Co.'s High Grade Economizer.	Houck & Cherrington, Catawissa.
7386	Griffith & Boyd Co.'s High Grade Economizer.	D. M. Reeder, Catawissa.
7405	Griffith & Boyd Co.'s High Grade Excelsior Guano	Houck & Cherrington, Catawissa.
5735	Griffith & Boyd Co.'s High Grade Excelsior Guano	J. N. Zeisloft, Bloomsburg.
6076	Griffith & Boyd Co.'s High Grade Fish and Potash Mixture.	J. S. Artley, Muncy.
6835	Griffith & Boyd Co.'s High Grade Fish and Potash Mixture.	R. S. Blaine, Turbotville.
6162	Griffith & Boyd Co.'s High Grade Fish and Potash Mixture.	Harmony Cereal Mills Co., Harmony.
5792	Griffith & Boyd Co.'s High Grade Fish and Potash Mixture.	H. M. Smith, Bellefonte.
6249	Griffith & Boyd Co.'s High Grade Truck Guano.	Homer Dilling, Martinsburg.
6567	Griffith & Boyd Co.'s High Grade Truck Guano.	W. Lovett Leigh, Tullytown.
7085	Griffith & Boyd Co.'s Nitro Crop Feeder.	F. W. Hoburg, Etna.
6629	Griffith & Boyd Co.'s Nitro Crop Feeder.	Hoburg Brothers, Etna.
6079	Griffith & Boyd Co.'s Peerless Fertilizer.	J. S. Artley, Muncy.
5667	Griffith & Boyd Co.'s Peerless Fertilizer.	E. A. Slagle, Paxinos.
7280	Griffith & Boyd Co.'s Peerless Fertilizer.	W. M. Templeton & Sons, Houston.
5673	Griffith & Boyd Co.'s Royal Potash Guano.	R. S. Blaine, Turbotville.
7183	Griffith & Boyd Co.'s Royal Potash Guano.	A. M. Butler, Howard.
5390	Griffith & Boyd Co.'s Royal Potash Guano.	J. E. Callahan & Sons, Montoursville.
7030	Griffith & Boyd Co.'s Royal Potash Guano.	Howard E. Degler, Shartlesville.

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
0.98	0.82	8.93	9.00	8.33	8.00	0.60	1.00	5.91	6.00	5.91	....	27.75	5646
0.95	0.82	9.21	9.00	8.61	8.00	0.60	1.00	7.10	6.00	7.10	....	26.50	7376
1.05	0.82	8.87	9.00	8.37	8.00	0.50	1.00	6.44	6.00	6.44	....	27.85	5597
1.01	0.82	9.20	9.00	8.36	8.00	0.84	1.00	6.55	6.00	6.55	....	28.00	7017
1.00	0.82	9.15	9.00	8.55	8.00	0.60	1.00	6.12	6.00	6.12	....	28.00	5861
1.05	0.82	8.42	9.00	7.82	8.00	0.60	1.00	6.66	6.00	6.66	....	26.50	5794
1.59	1.44	10.73	11.25	10.29	10.25	0.44	1.00	2.72	2.00	2.72	....	29.00	5649
1.71	1.44	11.74	11.25	11.48	10.25	0.26	1.00	2.35	2.00	2.35	....	29.00	7377
1.65	1.44	11.67	11.25	11.31	10.25	0.36	1.00	2.30	2.00	2.30	....	....	7032
1.65	1.44	11.38	11.25	11.10	10.25	0.28	1.00	2.24	2.00	2.24	....	30.00	7426
1.65	1.44	11.61	11.25	10.73	10.25	0.88	1.00	2.33	2.00	2.33	....	31.50	7084
1.65	1.44	11.35	11.25	11.01	10.25	0.34	1.00	2.59	2.00	2.59	....	32.50	6627
1.65	1.44	10.87	11.25	10.41	10.25	0.46	1.00	2.79	2.00	2.79	....	29.25	5595
1.45	1.44	11.05	11.25	10.83	10.25	0.22	1.00	2.30	2.00	2.30	....	30.00	7253
1.67	1.44	11.41	11.25	11.13	10.25	0.28	1.00	2.33	2.00	2.33	....	29.00	7281
1.65	1.44	11.03	11.25	10.49	10.25	0.54	1.00	2.68	2.00	2.68	....	28.50	6642
1.65	1.44	10.92	11.00	10.18	10.00	0.74	1.00	3.18	3.00	3.18	....	29.50	5648
1.57	1.44	10.78	11.00	10.22	10.00	0.56	1.00	3.11	3.00	3.11	....	28.50	6834
1.63	1.44	10.77	11.00	10.05	10.00	0.72	1.00	2.95	3.00	2.95	....	33.00	5391
1.60	1.44	10.86	11.00	10.00	10.00	0.86	1.00	3.31	3.00	3.31	....	29.75	5592
1.55	1.44	11.39	11.00	10.45	10.00	0.94	1.00	3.06	3.00	3.06	....	29.00	7018
1.70	1.44	10.98	11.00	10.22	10.00	0.76	1.00	3.41	3.00	3.41	....	32.50	6239
1.62	1.65	9.64	9.00	9.06	8.00	0.58	1.00	10.64	10.00	10.64	....	35.00	6966
1.73	1.65	9.46	9.00	8.76	8.00	0.70	1.00	10.21	10.00	10.21	....	36.00	7086
1.76	1.65	9.08	9.00	8.46	8.00	0.62	1.00	10.50	10.00	10.50	....	38.50	6628
1.89	1.65	8.69	9.00	8.21	8.00	0.48	1.00	10.79	10.00	10.79	....	34.50	5182
1.53	1.65	9.06	9.00	8.68	8.00	0.38	1.00	9.98	10.00	9.98	....	32.50	7383
1.80	1.65	8.55	9.00	7.87	8.00	0.68	1.00	10.95	10.00	10.95	....	33.50	5736
4.22	4.11	9.07	8.00	8.65	8.00	0.42	....	*7.77	8.00	7.77	....	41.50	5180
3.59	3.29	8.36	9.00	8.16	8.00	0.20	1.00	4.59	4.00	4.59	....	....	6240
1.69	1.65	12.59	13.00	12.13	12.00	0.46	1.00	5.80	5.00	5.80	....	33.00	6254
1.63	1.65	12.90	13.00	12.32	12.00	0.58	1.00	5.27	5.00	5.27	....	32.30	7298
1.85	1.65	12.97	13.00	12.35	12.00	0.62	1.00	5.95	5.00	5.95	....	31.00	6400
1.66	1.65	12.87	13.00	12.29	12.00	0.58	1.00	5.32	5.00	5.32	....	31.00	7386
1.93	1.65	16.71	17.00	16.01	16.00	0.70	1.00	8.85	8.00	8.85	....	38.00	7405
1.57	1.65	14.83	17.00	*13.26	16.00	1.57	1.00	8.51	8.00	8.51	....	37.50	5735
1.84	1.65	12.22	13.00	*11.72	12.00	0.50	1.00	7.95	8.00	7.95	....	40.00	6076
1.69	1.65	13.01	13.00	12.39	12.00	0.62	1.00	7.84	8.00	7.84	....	35.50	6835
1.73	1.65	12.74	13.00	12.30	12.00	0.44	1.00	8.49	8.00	8.49	....	40.00	6162
1.88	1.65	12.56	13.00	12.06	12.00	0.50	1.00	8.27	8.00	8.27	....	29.80	5792
4.03	4.11	8.84	9.00	8.44	8.00	0.40	1.00	*6.78	7.00	6.78	....	40.00	6249
4.17	4.11	9.06	9.00	8.82	8.00	0.24	1.00	7.83	7.00	7.83	....	43.50	6567
*5.92	6.58	4.59	4.50	4.33	4.00	0.26	0.50	3.72	2.00	3.72	....	46.50	7085
*6.10	6.58	5.11	4.50	4.97	4.00	0.14	0.50	2.87	2.00	2.87	....	48.00	6629
1.13	0.82	10.49	11.00	9.91	10.00	0.58	1.00	3.33	3.00	3.33	....	28.50	6079
1.28	0.82	10.65	11.00	10.31	10.00	0.34	1.00	3.55	3.00	3.55	....	28.00	5667
1.10	0.82	11.35	11.00	10.87	10.00	0.48	1.00	3.61	3.00	3.61	....	26.00	7280
1.15	0.82	9.71	10.00	9.19	9.00	0.52	1.00	4.60	4.00	4.60	....	26.50	5673
0.99	0.82	9.57	10.00	9.19	9.00	0.38	1.00	4.25	4.00	4.25	....	....	7183
1.03	0.82	9.63	10.00	9.11	9.00	0.52	1.00	4.04	4.00	4.04	....	31.00	5390
1.00	0.82	10.23	10.00	9.61	9.00	0.62	1.00	4.36	4.00	4.36	....	....	7030

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6164	Griffith & Boyd Co.'s Royal Potash Guano.	Harmony Cereal Mills, Harmony.....
7556	Griffith & Boyd Co.'s Royal Potash Guano.	Harmony Cereal Mills, Harmony.....
5791	Griffith & Boyd Co.'s Royal Potash Guano.	H. M. Smith, Bellefonte.....
7490	Griffith & Boyd Co.'s Royal Potash Guano.	A. F. Stutzman & Son, Johnstown.....
6119	Griffith & Boyd Co.'s Special Formula.....	Deal Brothers, Bedford.....
5591	Griffith & Boyd Co.'s Special Formula.....	G. R. McGee, Big Run.....
7019	Griffith & Boyd Co.'s Special Formula.....	G. R. McGee, Big Run.....
6075	Griffith & Boyd Co.'s Special Guano.....	J. S. Artley, Muncy.....
7182	Griffith & Boyd Co.'s Special Guano.....	A. M. Butler, Howard.....
5798	Griffith & Boyd Co.'s Special Guano.....	Lee Confer, Howard.....
7031	Griffith & Boyd Co.'s Special Guano.....	Howard E. Degler, Shartlesville.....
6968	Griffith & Boyd Co.'s Special Guano.....	Alex. Hamilton, Venango.....
6161	Griffith & Boyd Co.'s Special Guano.....	Harmony Cereal Mills, Harmony.....
5859	Griffith & Boyd Co.'s Special Guano.....	Shortlidge Brothers, West Grove.....
5388	Griffith & Boyd Co.'s Special Potato Guano.	J. E. Callahan & Sons, Montoursville.....
6120	Griffith & Boyd Co.'s Special Potato Guano.	Deal Brothers, Bedford.....
6402	Griffith & Boyd Co.'s Special Potato Guano.	Houck & Cherrington, Catawissa.....
6669	Griffith & Boyd Co.'s Special Potato Guano.	Kline Grain Co., Shelocta.....
6568	Griffith & Boyd Co.'s Special Potato Guano.	W. Lovett Leigh, Tullytown.....
5596	Griffith & Boyd Co.'s Spring Crop Grower.	G. R. McGee, Big Run.....
	<b>M. P. HUBBARD &amp; COMPANY, INC., BALTIMORE, MD.</b>	
6544	Hubbard's Big Crop Guano.....	Mackey & Yerkes, Oxford.....
7245	Hubbard's Big Crop Guano.....	Mackey & Yerkes, Oxford.....
6546	Hubbard's Giant Compound.....	Mackey & Yerkes, Oxford.....
6547	Hubbard's Sterling Phosphate.....	Mackey & Yerkes, Oxford.....
	<b>THE HUBBARD FERTILIZER COM- PANY, BALTIMORE, MD.</b>	
6790	Hubbard's Complete Fertilizer.....	Clinton County Agricultural Extension Associa- tion, Lock Haven.....
5085	Hubbard's Complete Fertilizer.....	Clinton County Agricultural Extension Associa- tion, Lock Haven.....
7533	Hubbard's Complete Fertilizer.....	Petersburg Milling Co., Bessemer.....
7357	Hubbard's Excelsior Wheat Grower.....	H. O. Kimmel, Shelocta.....
5084	Hubbard's Farmers I. X. L.....	Clinton County Cooperative Association, Lock Haven.....
5079	Hubbard's Jersey Trucker.....	Clinton County Cooperative Association, Lock Haven.....
6951	Hubbard's Jersey Trucker.....	Cochranon Milling Co., Cochranon.....
6510	Hubbard's Jersey Trucker.....	Fry Milling Co., Cresson.....
7062	Hubbard's Jersey Trucker.....	Roy Leach, Lewistown.....
6238	Hubbard's Jersey Trucker.....	John A. McGee Hardware, Clarion.....
5163	Hubbard's Jersey Trucker.....	Oil City Milling Co., Oil City.....
7406	Hubbard's Jersey Trucker.....	S. F. Rarig, Catawissa.....
5654	Hubbard's Jersey Trucker.....	T. H. Speigelmire, Selinsgrove.....
7092	Hubbard's Jersey Trucker.....	R. J. Toepfer, Tarentum.....
5661	Hubbard's Money Maker Fertilizer.....	C. S. Bogar, Selinsgrove.....
6789	Hubbard's Money Maker Fertilizer.....	Clinton County Agricultural Extension Associa- tion, Lock Haven.....
5080	Hubbard's Money Maker Fertilizer.....	Clinton County Cooperation Association, Lock Haven.....
6952	Hubbard's Money Maker Fertilizer.....	Cochranon Milling Co., Cochranon.....
7000	Hubbard's Money Maker Fertilizer.....	Kline Flour Mills Co., Brookville.....
5239	Hubbard's Money Maker Fertilizer.....	John A. McGee Hardware, Clarion.....
5162	Hubbard's Money Maker Fertilizer.....	Oil City Milling Co., Oil City.....
5088	Hubbard's Potato Fertilizer.....	Clinton County Cooperative Association, Lock Haven.....
6511	Hubbard's Potato Fertilizer.....	Fry Milling Co., Cresson.....
6615	Hubbard's Potato Fertilizer.....	Charles Rarich, Drums.....
6481	Hubbard's Potato Fertilizer.....	Somerset Milling Co., Somerset.....
5655	Hubbard's Potato Fertilizer.....	T. H. Speigelmire, Selinsgrove.....
7064	Hubbard's Special Brand Fertilizer.....	Dan Brought, Lewistown.....
5087	Hubbard's Special Brand Fertilizer.....	Clinton County Cooperative Association, Lock Haven.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.12	0.82	9.57	10.00	9.01	9.00	0.56	1.00	4.69	4.00	4.69	....	28.50	6164
1.01	0.82	9.72	10.00	9.24	9.00	0.48	1.00	4.40	4.00	4.40	....	28.50	7556
1.02	0.82	9.64	10.00	9.14	9.00	0.50	1.00	4.40	4.00	4.40	....	25.50	5791
1.01	0.82	10.22	10.00	9.92	9.00	0.30	1.00	3.82	4.00	3.82	....	32.00	7490
1.80	1.65	10.77	11.00	10.13	10.00	0.64	1.00	4.38	4.00	4.38	....	31.25	6119
1.66	1.65	10.75	11.00	10.49	10.00	0.26	1.00	4.58	4.00	4.58	....	30.50	5591
1.72	1.65	10.79	11.00	10.29	10.00	0.50	1.00	4.03	4.00	4.03	....	29.75	7019
1.68	1.65	8.42	9.00	8.02	8.00	0.40	1.00	5.39	5.00	5.39	....	32.50	6075
1.58	1.65	9.08	9.00	8.60	8.00	0.48	1.00	5.64	5.00	5.64	....	28.00	7182
1.88	1.65	8.61	9.00	8.15	8.00	0.46	1.00	5.21	5.00	5.21	....	29.70	5798
1.71	1.65	9.26	9.00	8.74	8.00	0.52	1.00	5.31	5.00	5.31	....	....	7031
1.66	1.65	9.44	9.00	8.90	8.00	0.54	1.00	5.93	5.00	5.93	....	30.00	6968
1.78	1.65	8.61	9.00	8.25	8.00	0.36	1.00	4.95	5.00	4.95	....	32.00	6161
1.84	1.65	8.95	9.00	8.55	8.00	0.40	1.00	5.40	5.00	5.40	....	29.00	5859
3.35	3.29	8.52	9.00	8.30	8.00	0.22	1.00	7.19	6.00	7.19	....	40.00	5388
3.24	3.29	8.98	9.00	8.74	8.00	0.24	1.00	7.00	6.00	7.00	....	37.75	6120
3.33	3.29	9.16	9.00	8.74	8.00	0.42	1.00	6.80	6.00	6.80	....	37.00	6402
3.38	3.29	8.85	9.00	8.49	8.00	0.36	1.00	6.73	6.00	6.73	....	36.00	6669
3.12	3.29	8.80	9.00	8.38	8.00	0.42	1.00	6.62	6.00	6.62	....	39.50	6568
2.20	2.05	8.61	9.00	8.29	8.00	0.32	1.00	5.19	4.00	5.19	....	30.75	5596
1.71	1.65	8.80	8.50	8.38	8.00	0.42	0.50	5.07	5.00	5.07	....	29.00	6544
1.65	1.65	9.02	8.50	8.26	8.00	0.76	0.50	5.14	5.00	5.14	....	....	7245
1.89	1.65	9.18	8.50	8.74	8.00	0.44	0.50	10.46	10.00	10.46	....	33.00	6546
3.29	3.29	9.18	8.50	8.84	8.00	0.34	0.50	*6.48	7.00	6.48	....	36.00	6547
1.67	1.65	12.44	12.50	11.97	12.00	0.47	0.50	2.36	2.00	2.36	....	27.50	6790
1.68	1.65	12.69	12.50	12.01	12.00	0.68	0.50	2.10	2.00	2.10	....	28.10	5085
1.66	1.65	13.32	12.50	12.88	12.00	0.44	0.50	2.24	2.00	2.24	....	31.00	7533
1.17	0.82	9.58	8.50	9.06	8.00	0.52	0.50	6.28	6.00	6.28	....	25.50	7357
1.74	1.65	10.24	9.50	9.74	9.00	0.50	0.50	3.14	3.00	3.14	....	24.00	5084
1.77	1.65	9.18	8.50	8.50	8.00	0.68	0.50	*9.75	10.00	6.70	3.05	30.00	5079
1.75	1.65	9.93	8.50	9.47	8.00	0.46	0.50	10.02	10.00	10.02	....	34.45	6951
1.68	1.65	8.98	8.50	8.00	8.00	0.98	0.50	*9.64	10.00	9.64	....	37.70	6510
1.83	1.65	8.42	8.50	8.22	8.00	0.20	0.50	10.28	10.00	10.28	....	32.50	7062
1.78	1.65	8.56	8.50	8.00	8.00	0.56	0.50	10.24	10.00	10.24	....	40.00	5238
1.65	1.65	8.80	8.50	8.10	8.00	0.70	0.50	*9.20	10.00	9.20	....	35.15	5163
1.69	1.65	9.73	8.50	8.29	8.00	1.44	0.50	10.31	10.00	10.31	....	31.00	7406
1.71	1.65	8.75	8.50	8.03	8.00	0.72	0.50	10.31	10.00	10.31	....	....	5654
1.66	1.65	8.93	8.50	8.31	8.00	0.62	0.50	*9.39	10.00	9.39	....	37.00	7092
1.72	1.65	8.48	8.50	8.04	8.00	0.44	0.50	4.87	5.00	4.87	....	28.25	5661
1.66	1.65	8.94	8.50	8.38	8.00	0.56	0.50	5.13	5.00	5.13	....	27.50	6789
1.80	1.65	9.27	8.50	8.71	8.00	0.56	0.50	4.97	5.00	4.97	....	27.90	5080
1.65	1.65	8.61	8.50	8.19	8.00	0.42	0.50	5.46	5.00	5.46	....	29.55	6952
1.73	1.65	9.22	8.50	8.78	8.00	0.44	0.50	5.02	5.00	5.02	....	32.00	7000
1.84	1.65	8.55	8.50	8.11	8.00	0.44	0.50	5.00	5.00	5.00	....	33.00	5239
1.72	1.65	9.08	8.50	8.52	8.00	0.56	0.50	*4.73	5.00	4.73	....	30.74	5162
3.32	3.29	9.08	8.50	8.36	8.00	0.72	0.50	7.08	7.00	7.08	....	35.10	5088
3.31	3.29	8.97	8.50	8.63	8.00	0.34	0.50	6.82	7.00	6.82	....	41.50	6511
3.58	3.29	8.60	8.50	8.32	8.00	0.28	0.50	7.29	7.00	7.29	....	32.75	6615
3.39	3.29	9.38	8.50	8.88	8.00	0.50	0.50	7.22	7.00	7.22	....	35.25	6481
3.16	3.29	9.15	8.50	8.53	8.00	0.62	0.50	*6.16	7.00	6.16	....	....	5655
3.30	3.29	12.85	12.50	12.29	12.00	0.56	0.50	3.94	4.00	3.94	....	38.50	7064
3.40	3.29	12.95	12.50	12.47	12.00	0.48	0.50	4.08	4.00	4.08	....	35.20	5087

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5662	Hubbard's 1-9-4 Fertilizer	C. S. Bogar, Selinsgrove
6512	Hubbard's 1-9-4 Fertilizer	Fry Milling Co., Cresson
6186	Hubbard's 1-9-4 Fertilizer	J. M. Hoagland & Co., Sharon
6999	Hubbard's 1-9-4 Fertilizer	Kline Flour Mills Co., Brookville
5240	Hubbard's 1-9-4 Fertilizer	John A. McGee Hardware, Clarion
7408	Hubbard's 1-9-4 Fertilizer	S. F. Rarig, Catawissa
6953	Hubbard's 2-10-6 Fertilizer	Cochranon Milling Co., Cochranon
5663	Hubbard's 2-12-4 Fertilizer	C. S. Bogar, Selinsgrove
6791	Hubbard's 2-12-4 Fertilizer	Clinton County Agricultural Extension Association, Lock Haven
5081	Hubbard's 2-12-4 Fertilizer	Clinton County Cooperative Association, Lock Haven
7470	Hubbard's 2-12-4 Fertilizer	Charles Rarich, Drums
7407	Hubbard's 2-12-4 Fertilizer	S. F. Rarig, Catawissa
6950	Hubbard's 2-12-6 Fertilizer	Cochranon Milling Co., Cochranon
6616	Hubbard's 3-10-6 Fertilizer	Charles Rarich, Drums
7356	Hubbard's 4-8-6 Fertilizer	H. O. Kimmel, Shelocta
5082	Hubbard's 4-16-4 Fertilizer	Clinton County Cooperative Association, Lock Haven
5808	Hubbard's 5-8-5 Fertilizer	Kephart Hardware Co., Philipsburg
INDEPENDENT MANUFACTURING CO., PHILADELPHIA, PA		
5249	Independent's 2-8-5 Fertilizer	Great Valley Mills, Paoli
7237	Independent's 2-8-5 Fertilizer	Paoli Coal & Supply Co., Paoli
5251	Independent's 3-8-10 Fertilizer	Great Valley Mills, Paoli
5862	Independent's 4-8-5 Fertilizer	Chester County Farmers' Association, Kelton
7104	Smith's Mum Manure	Independent Manufacturing Co., Philadelphia
INTERNATIONAL AGRICULTURAL CORPORATION, BUFFALO, N. Y.		
6100	International Crop Grower 2-12-2	B. S. Tallmadge, McKean
6181	International Garden Truck 4-8-7	J. A. Cover, New Castle
7571	International Garden Truck 4-8-7	J. A. Cover, New Castle
5539	International Ideal 2-8-5	B. Corwin, Pleasantville
6101	International Superior 4-12-4	B. S. Tallmadge, McKean
5540	International Supreme 2-8-10	B. Corwin, Pleasantville
7545	International Tip Top	Moore & Moore, Portersville
J. & J. GUANO COMPANY, YORK, PA.		
7138	Two Fold Guano	J. & J. Guano Co., York
THE JARECKI CHEMICAL CO., SANDUSKY, OHIO		
5178	Jarecki's Potato Grower	J. L. Alcorn, Titusville
6956	Jarecki's Potato Grower	J. L. Alcorn, Titusville
5800	Jarecki's Potato Grower	Ed. Hess, Philipsburg
5413	Jarecki's Potato Grower	Chester W. Snyder, Lehighon
5921	Jarecki's Tomato Grower	W. W. Shoemaker, Walnutport
5414	Jarecki's 2-8-5 Fertilizer	Chester W. Snyder, Lehighon
5177	Jarecki's 2-8-10 Fertilizer	J. L. Alcorn, Titusville
6957	Jarecki's 2-8-10 Fertilizer	J. L. Alcorn, Titusville
6317	Jarecki's 2-8-10 Fertilizer	Amby Hettler, Lehighon
5545	Jarecki's 2-8-10 Fertilizer	C. Mitchell & Son, Millvillage
6319	Jarecki's 2-12-4 Fertilizer	Amby Hettler, Lehighon
6321	Jarecki's 2-16-8 Fertilizer	Amby Hettler, Lehighon
5546	Jarecki's 4-12-8 Fertilizer	C. Mitchell & Son, Millvillage
5801	Jarecki's 4-16-4 Fertilizer	Ed. Hess, Philipsburg
6320	Jarecki's 7-11-10 Fertilizer	Amby Hettler, Lehighon

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
0.93	0.82	9.69	9.50	8.85	9.00	0.84	0.50	4.68	4.00	4.68	....	26.00	5662
1.02	0.82	9.95	9.50	9.17	9.00	0.78	0.50	4.38	4.00	4.38	....	29.20	6512
1.01	0.82	9.81	9.50	9.25	9.00	0.56	0.50	4.50	4.00	4.50	....	27.00	6186
0.96	0.82	9.45	9.50	9.01	9.00	0.44	0.50	4.16	4.00	4.16	....	28.00	6999
1.00	0.82	9.73	9.50	9.03	9.00	0.70	0.50	*3.72	4.00	3.72	....	30.00	5240
0.98	0.82	10.33	9.50	9.41	9.00	0.92	0.50	4.43	4.00	4.43	....	24.00	7408
1.85	1.65	10.97	10.50	10.35	10.00	0.62	0.50	6.24	6.00	6.24	....	32.20	6953
1.73	1.65	12.96	12.50	12.22	12.00	0.74	0.50	4.21	4.00	4.21	....	31.50	5663
1.67	1.65	13.14	12.50	12.72	12.00	0.42	0.50	3.96	4.00	3.96	....	29.00	6791
1.74	1.65	12.55	12.50	11.97	12.00	0.58	0.50	4.25	4.00	4.25	....	29.75	5081
1.85	1.65	13.16	12.50	12.52	12.00	0.64	0.50	4.64	4.00	4.64	....	30.00	7470
1.66	1.65	13.27	12.50	12.73	12.00	0.54	0.50	4.48	4.00	4.48	....	29.25	7407
1.74	1.65	12.88	12.50	12.32	12.00	0.56	0.50	*5.74	6.00	5.74	....	33.95	6950
*1.94	2.47	10.72	10.50	10.24	10.00	0.48	0.50	6.79	6.00	6.79	....	30.00	6616
*2.76	3.29	9.73	8.50	9.31	8.00	0.42	0.50	6.06	6.00	6.06	....	35.00	7356
*2.99	3.29	16.67	16.50	16.13	16.00	0.54	0.50	4.65	4.00	4.65	....	39.50	5082
4.11	4.11	8.93	8.50	8.43	8.00	0.50	0.50	5.23	5.00	5.23	....	42.00	5808
2.08	1.64	9.80	8.00	8.78	8.00	1.02	....	6.90	5.00	6.90	....	30.00	5249
1.65	1.64	10.01	8.00	8.91	8.00	1.10	....	*4.29	5.00	4.29	....	24.05	7237
2.53	2.46	10.46	8.00	8.80	8.00	1.66	....	*9.42	10.00	9.42	....	36.50	5251
3.68	3.29	9.90	8.00	8.36	8.00	1.54	....	5.98	5.00	5.98	....	35.50	5862
5.54	4.92	13.29	5.00	9.71	5.00	3.58	....	4.93	4.60	4.40	0.53	150.00	7104
1.72	1.65	12.53	13.00	*11.67	12.00	0.86	1.00	2.96	2.00	2.96	....	31.00	6100
3.11	3.30	8.94	9.00	8.10	8.00	0.84	1.00	7.83	7.00	7.83	....	41.85	6181
3.31	3.30	8.42	9.00	7.96	8.00	0.46	1.00	8.07	7.00	8.07	....	42.00	7571
1.79	1.65	9.12	9.00	8.06	8.00	1.06	1.00	5.01	5.00	5.01	....	40.00	5539
3.35	3.30	12.58	13.00	*11.50	12.00	1.08	1.00	4.61	4.00	4.61	....	39.50	6101
1.65	1.65	8.87	9.00	8.21	8.00	0.66	1.00	10.10	10.00	10.10	....	46.00	5540
0.92	0.82	10.00	10.00	9.20	9.00	0.80	1.00	3.85	4.00	3.85	....	27.00	7545
*1.25	1.65	10.14	8.50	9.76	8.00	0.38	0.50	5.54	5.60	5.54	....	....	7138
3.22	3.29	8.58	8.50	8.00	8.00	0.58	0.50	7.48	7.00	6.60	0.88	40.50	5178
3.29	3.29	9.11	8.50	8.53	8.00	0.58	0.50	7.10	7.00	7.10	....	40.50	6956
3.46	3.29	8.67	8.50	8.33	8.00	0.34	0.50	7.01	7.00	7.01	....	38.50	5800
3.41	3.29	8.93	8.50	8.41	8.00	0.52	0.50	7.09	7.00	7.09	....	....	5413
2.30	2.47	10.80	10.50	10.32	10.00	0.48	0.50	6.60	6.00	6.60	....	34.15	5921
1.83	1.65	8.93	8.50	8.47	8.00	0.46	0.50	*4.80	5.00	4.80	....	....	5414
1.65	1.65	8.51	8.50	8.03	8.00	0.48	0.50	10.15	10.00	9.30	0.85	37.50	5177
*1.35	1.65	7.94	8.50	*5.95	8.00	1.99	0.50	*8.95	10.00	8.95	....	37.50	6957
1.84	1.65	8.95	8.50	8.57	8.00	0.38	0.50	10.55	10.00	10.55	....	33.00	6317
1.50	1.65	8.07	8.50	*7.77	8.00	0.30	0.50	10.46	10.00	10.46	....	35.05	5545
1.77	1.65	12.12	12.50	*11.80	12.00	0.32	0.50	5.04	4.00	5.04	....	31.00	6319
1.82	1.65	17.13	16.50	16.81	16.00	0.32	0.50	8.07	8.00	7.40	0.67	42.00	6321
3.30	3.29	12.82	12.50	12.26	12.00	0.56	0.50	8.77	8.00	8.77	....	42.10	5546
3.47	3.29	17.39	16.50	17.03	16.00	0.36	0.50	4.27	4.00	3.90	0.37	42.20	5801
5.70	5.76	11.99	11.50	11.21	11.00	0.78	0.50	9.92	10.00	9.92	....	54.00	6320

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.</b>	
7460	Corn and Cereal Grower 2-12-4.....	P. K. Smith, Nescopeck.....
7108	Corn and Cereal Grower 2-12-4.....	F. W. Tunnell & Co., Inc., Philadelphia.....
7349	Royal Corn and Potato Manure Revised 2-8-5.....	M. W. Hoffman & Co., New Tripoli.....
5421	Royal Corn and Potato Manure Revised 2-8-5.....	Titus Merkle, Shoemakersville.....
6387	Royal Corn and Potato Manure Revised 2-8-5.....	Fred. S. Nester, New Ringgold.....
7350	Superior Superphosphate and Potash 1-8-6.....	M. W. Hoffman & Co., New Tripoli.....
6389	Superior Superphosphate and Potash 1-8-6.....	Fred. S. Nester, New Ringgold.....
6388	Truck and Corn Manure 2-8-10.....	Fred. S. Nester, New Ringgold.....
7402	Truck and Corn Manure 2-8-10.....	Fred. S. Nester, New Ringgold.....
6601	Truck and Corn Manure 2-8-10.....	P. K. Smith, Nescopeck.....
6600	Twentieth Century Special 2-10-6.....	P. K. Smith, Nescopeck.....
	<b>KEYSTONE GRANGE EXCHANGE INC., HARRISBURG, PA.</b>	
6949	Granger's Choice.....	Cochranon Cooperative Association, Cochranon.
6881	Granger's Choice.....	Freemont Grange, Mt. Pleasant Mills.....
6947	Granger's Climax.....	Cochranon Cooperative Association, Cochranon.
6879	Granger's Climax.....	Freemont Grange, Mt. Pleasant Mills.....
6216	Granger's Pep.....	Lynn H. Hall, Harrisburg.....
5723	Granger's Potato.....	R. H. Carson, Coal Center.....
6214	Granger's Potato.....	Lynn H. Hall, Harrisburg.....
6488	Granger's Potato.....	Lynn H. Hall, Harrisburg.....
6651	Granger's Potato.....	N. H. Sloan, Rural Valley.....
5231	Granger's Prize.....	Amos Beck, Reynoldsville.....
5725	Granger's Prize.....	R. H. Carson, Coal Center.....
6948	Granger's Prize.....	Cochranon Cooperative Association, Cochranon.
6594	Granger's Prize.....	Lynn H. Hall, Harrisburg.....
6649	Granger's Prize.....	N. H. Sloan, Rural Valley.....
5726	Granger's Tip Top.....	R. H. Carson, Coal Center.....
6486	Granger's Tip Top.....	Lynn H. Hall, Harrisburg.....
	<b>KOLLER FERTILIZER COMPANY, GLEN ROCK, PA.</b>	
5690	Koller's Ammoniated Phosphate.....	Koller Fertilizer Company, Glen Rock.....
7128	Koller's Ammoniated Phosphate.....	Koller Fertilizer Company, Glen Rock.....
5692	Koller's Corn Special Phosphate.....	Koller Fertilizer Company, Glen Rock.....
5693	Koller's Keystone Potato Fertilizer.....	Koller Fertilizer Company, Glen Rock.....
5694	Koller's Lion Brand Phosphate.....	Koller Fertilizer Company, Glen Rock.....
7131	Koller's Lion Brand Phosphate.....	Koller Fertilizer Company, Glen Rock.....
5691	Koller's Potato Grower Phosphate.....	Koller Fertilizer Company, Glen Rock.....
7129	Koller's Potato Grower Phosphate.....	Koller Fertilizer Company, Glen Rock.....
7132	Koller's Producer Phosphate.....	Koller Fertilizer Company, Glen Rock.....
5698	Koller's Super Ammoniated Phosphate.....	Koller Fertilizer Company, Glen Rock.....
7130	Koller's Super Ammoniated Phosphate.....	Koller Fertilizer Company, Glen Rock.....
5695	Koller's Truck Special.....	Koller Fertilizer Company, Glen Rock.....
	<b>LANCASTER BONE FERTILIZER CO., INC., QUARRYVILLE, PA.</b>	
5500	Conestoga Brand Farmers' Favorite.....	T. L. Eaton, East Waterford.....
6913	Conestoga Brand Farmers' Favorite.....	Firestone & Shillito, Dillsburg.....
7170	Conestoga Brand Farmers' Favorite.....	Lancaster Bone Fertilizer Co., Inc., Quarryville...
7338	Conestoga Brand Farmers' Favorite.....	Wm. H. Meck, Hamburg.....
5957	Conestoga Brand Farmers' Favorite.....	George H. Steininger, Middleburg.....
6873	Conestoga Brand Farmers' Favorite.....	George H. Steininger, Middleburg.....
6772	Conestoga Brand Fish Compound.....	George G. Grieb, Tylersville.....
6204	Conestoga Brand Fish Compound.....	W. W. Kalb, Sunbury.....
5044	Conestoga Brand Fish Compound.....	Lancaster Bone Fertilizer Co., Inc., Quarryville..
7337	Conestoga Brand Fish Compound.....	Wm. H. Meck, Hamburg.....
7029	Conestoga Brand Fish Compound.....	Wm. Youmker, Shartlesville.....
6549	Conestoga Brand Fish Compound.....	Henry S. Zook, Elverson.....
7525	Conestoga Brand Fish Compound.....	Henry S. Zook, Elverson.....
5882	Conestoga Brand Harvest Queen.....	Brown & Rea, Atglen.....

## FERTILIZERS—Continued.


NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.		Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.			
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.							
%	%	%	%	%	%	%	%	%	%	%	%	\$		
1.73	1.64	12.68	13.00	12.08	12.00	0.60	1.00	4.46	4.00	4.46	.....	.....	7460	
1.66	1.64	13.47	13.00	12.71	12.00	0.76	1.00	4.53	4.00	4.53	.....	.....	7108	
1.75	1.64	9.57	9.00	8.97	8.00	0.60	1.00	5.26	5.00	5.26	.....	28.00	7349	
1.66	1.64	9.27	9.00	8.71	8.00	0.56	1.00	5.60	5.00	5.60	.....	.....	5421	
1.66	1.64	9.44	9.60	9.60	8.00	0.44	1.00	5.59	5.00	5.59	.....	29.25	6387	
1.08	0.82	9.18	9.00	8.88	8.00	0.30	1.00	6.83	6.00	6.83	.....	25.00	7350	
1.07	0.82	9.40	9.00	8.90	8.00	0.50	1.00	6.50	6.00	6.50	.....	27.25	6389	
1.68	1.64	9.31	9.60	8.87	8.00	0.44	1.00	10.56	10.00	10.56	.....	33.75	6388	
1.64	1.64	8.79	9.60	8.39	8.00	0.40	1.00	10.04	10.00	10.04	.....	32.75	7402	
1.67	1.64	9.24	9.00	8.70	8.00	0.54	1.00	10.64	10.00	10.64	.....	.....	6601	
1.65	1.64	12.19	11.00	11.61	10.00	0.58	1.00	*5.55	6.00	4.90	0.65	.....	6600	
*1.45	1.65	12.96	12.50	12.36	12.00	0.60	0.50	2.71	2.00	2.71	.....	28.84	6949	
1.65	1.65	13.33	12.50	12.59	12.00	0.74	0.50	2.29	2.00	2.29	.....	.....	6881	
1.60	1.65	8.70	8.50	8.14	8.00	0.56	0.50	10.44	10.00	10.44	.....	33.16	6947	
1.78	1.65	9.10	8.50	8.16	8.60	0.94	0.50	10.68	10.00	10.68	.....	.....	6879	
2.57	2.47	13.14	12.50	12.42	12.00	0.72	0.50	3.19	3.00	3.19	.....	31.64	6216	
4.21	3.29	8.32	8.50	*7.66	8.00	0.66	0.50	*6.36	7.00	6.36	.....	35.06	5723	
3.57	3.29	8.81	8.50	8.01	8.00	0.80	0.50	7.13	7.00	7.13	.....	35.60	6214	
3.43	3.29	9.76	8.50	9.26	8.00	0.50	0.50	7.31	7.00	7.31	.....	35.60	6488	
3.56	3.28	9.27	8.50	8.41	8.60	0.86	0.50	7.26	7.00	7.26	.....	35.00	6651	
1.81	1.65	8.50	8.50	7.82	8.60	0.68	0.50	5.32	5.00	5.32	.....	36.00	5231	
1.80	1.65	8.74	8.50	8.02	8.00	0.72	0.50	5.50	5.00	5.50	.....	28.36	5725	
1.65	1.65	9.39	8.50	8.83	8.06	0.56	0.50	5.38	5.00	5.38	.....	28.36	6948	
1.71	1.65	8.64	8.50	8.02	8.00	0.62	0.50	5.33	5.00	5.33	.....	27.80	6594	
1.75	1.65	9.48	8.50	8.76	8.00	0.72	0.50	4.94	5.00	4.94	.....	27.80	6649	
3.30	3.29	16.98	16.50	16.32	16.00	0.66	0.50	10.62	10.00	10.62	.....	47.56	5726	
3.46	3.29	16.50	16.50	*15.52	16.00	0.98	0.50	*9.59	10.00	9.59	.....	47.00	6486	
0.88	0.82	10.82	8.50	9.80	8.60	1.02	0.50	5.35	5.00	5.35	.....	23.50	5690	
0.92	0.82	10.55	9.00	10.01	8.00	0.54	1.00	5.90	5.00	5.90	.....	22.56	7128	
0.97	0.82	12.53	11.60	10.79	10.00	1.74	1.00	4.39	4.00	4.39	.....	26.50	5692	
3.23	3.30	10.54	8.50	9.20	8.00	1.34	0.50	7.75	7.00	7.75	.....	34.00	5693	
1.78	1.65	11.86	11.00	11.20	10.00	0.66	1.00	5.89	6.00	5.89	.....	29.00	5694	
1.47	1.65	13.04	11.00	12.16	10.00	0.88	1.00	6.14	6.00	6.14	.....	28.50	7131	
0.67	0.82	10.59	8.50	9.61	8.00	0.98	0.50	8.59	8.00	8.59	.....	27.00	5691	
0.84	0.82	10.86	9.00	10.46	8.00	0.40	1.00	8.03	8.00	8.03	.....	26.06	7129	
1.78	1.65	13.46	9.60	9.38	8.00	0.08	1.00	*9.72	10.00	9.72	.....	33.00	7132	
1.66	1.65	10.41	9.00	9.63	8.00	0.78	1.00	5.97	5.00	5.97	.....	28.00	5698	
1.50	1.65	10.98	9.60	9.72	8.00	1.26	1.00	4.95	5.00	4.95	.....	27.50	7130	
2.36	2.46	10.08	8.50	9.48	8.00	0.60	0.50	5.23	5.00	5.23	.....	33.00	5695	
0.95	0.82	9.57	10.00	9.15	9.00	0.42	1.00	4.08	4.00	4.68	.....	21.70	5500	
1.02	0.82	9.78	10.00	9.44	9.00	0.34	1.00	4.40	4.00	4.40	.....	20.70	6913	
0.90	0.82	9.64	10.00	9.18	9.00	0.46	1.00	4.04	4.00	4.04	.....	.....	7170	
0.73	0.82	9.39	10.00	9.13	9.00	0.26	1.00	4.33	4.00	4.33	.....	26.00	7338	
1.02	0.82	9.50	10.00	8.96	9.00	0.54	1.00	4.88	4.00	4.88	.....	27.00	5957	
1.00	0.82	9.78	10.00	8.82	9.00	0.96	1.00	4.16	4.00	4.16	.....	26.00	6873	
1.71	1.60	11.81	11.00	11.09	10.00	0.72	1.00	3.40	3.00	3.40	.....	20.00	6772	
1.67	1.60	11.01	11.00	10.75	10.00	0.26	1.00	3.03	3.00	3.03	.....	50.00	6204	
1.65	1.60	10.75	11.00	10.45	10.00	0.30	1.00	3.24	3.00	3.24	.....	.....	5044	
1.77	1.60	11.29	11.60	10.81	10.60	0.48	1.00	3.76	3.00	3.76	.....	31.25	7337	
1.54	1.60	10.77	11.00	10.39	10.00	0.38	1.00	3.29	3.00	3.29	.....	31.00	7029	
1.67	1.60	10.88	11.00	10.50	10.00	0.38	1.00	3.00	3.00	3.00	.....	29.45	6549	
1.55	1.60	10.42	11.00	10.18	10.00	0.24	1.00	3.37	3.00	3.37	.....	30.00	7525	
1.73	1.60	8.80	9.60	8.40	8.00	0.40	1.00	5.29	5.00	5.29	.....	27.00	5882	

\*Deficient.

## TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5065	Conestoga Brand Harvest Queen.....	J. W. Condo, Mill-Hall.....
6912	Conestoga Brand Harvest Queen.....	Firestone & Shillito, Dillsburg.....
6770	Conestoga Brand Harvest Queen.....	George G. Grieb, Tylersville.....
7393	Conestoga Brand Harvest Queen.....	W. W. Kalb, Sunbury.....
5041	Conestoga Brand Harvest Queen.....	Lancaster Bone Fertilizer Co., Inc., Quarryville..
7168	Conestoga Brand Harvest Queen.....	Lancaster Bone Fertilizer Co., Inc., Quarryville..
5956	Conestoga Brand Harvest Queen.....	George H. Steininger, Middleburg.....
5881	Conestoga Brand Lancaster Peerless.....	Brown & Rea, Atglen.....
6773	Conestoga Brand Lancaster Peerless.....	George G. Grieb, Tylersville.....
7394	Conestoga Brand Lancaster Peerless.....	W. W. Kalb, Sunbury.....
5043	Conestoga Brand Lancaster Peerless.....	Lancaster Bone Fertilizer Co., Inc., Quarryville..
7171	Conestoga Brand Lancaster Peerless.....	Lancaster Bone Fertilizer Co., Inc., Quarryville..
5883	Conestoga Brand Potato Grower.....	Brown & Rea, Atglen.....
5063	Conestoga Brand Potato Grower.....	J. W. Condo, Mill-Hall.....
5045	Conestoga Brand Potato Grower.....	Lancaster Bone Fertilizer Co., Inc., Quarryville..
7336	Conestoga Brand Potato Grower.....	Wm. H. Meek, Hamburg.....
5036	Conestoga Brand Truckers' Special.....	J. W. Condo, Mill-Hall.....
5966	Conestoga Brand Truckers' Special.....	J. W. Herman, Beaver Springs.....
5042	Conestoga Brand Truckers' Special.....	Lancaster Bone Fertilizer Co., Inc., Quarryville..
6548	Conestoga Brand Truckers' Special.....	Henry S. Zook, Elverson.....
6774	Conestoga Brand 3-12-5.....	George G. Grieb, Tylersville.....
5040	Conestoga Brand 3-12-5.....	Lancaster Bone Fertilizer Co., Inc., Quarryville..
	LANCASTER CHEMICAL CO., LANCASTER, PA.	
6315	No. 19 Potato Special.....	Allen S. Becker, Hamburg.....
	LEBANON FERTILIZER WORKS, LEBANON, PA.	
5055	Levan's 1-9-4.....	A. L. Herr & Brother, Quarryville.....
6514	Levan's 1-9-4.....	V. A. Huber, Patton.....
5210	Levan's 1-9-4.....	James W. Rentschler, Hamburg.....
7044	Levan's 1-9-4.....	James W. Rentschler, Hamburg.....
5926	Levan's 2-8-5.....	John A. Bayer, Hamburg.....
7172	Levan's 2-8-5.....	Enos Book, Quarryville.....
6303	Levan's 2-8-5.....	J. H. Grumbine, Fredericksburg.....
5054	Levan's 2-8-5.....	A. L. Herr & Brother, Quarryville.....
5208	Levan's 2-8-5.....	James W. Rentschler, Hamburg.....
7043	Levan's 2-8-5.....	James W. Rentschler, Hamburg.....
5927	Levan's 2-8-10.....	John A. Bayer, Hamburg.....
6302	Levan's 2-8-10.....	J. H. Grumbine, Fredericksburg.....
6516	Levan's 2-8-10.....	V. A. Huber, Patton.....
7045	Levan's 2-8-10.....	James W. Rentschler, Hamburg.....
6235	Levan's 2-12-5.....	G. W. Gates, Williamsburg.....
6517	Levan's 2-12-5.....	V. A. Huber, Patton.....
6236	Levan's 3-12-6.....	G. W. Gates, Williamsburg.....
6237	Levan's 4-8-7.....	G. W. Gates, Williamsburg.....
6301	Levan's 4-8-7.....	J. H. Grumbine, Fredericksburg.....
5207	Levan's 4-8-7.....	James W. Rentschler, Hamburg.....
7046	Levan's 4-8-7.....	James W. Rentschler, Hamburg.....
6518	Levan's 4-16-4.....	V. A. Huber, Patton.....
	FRED E. LORD, ESPY, PA.	
5602	Columbia County Garden Special.....	Fred E. Lord, Espy.....
6595	Columbia County Garden Special.....	Fred E. Lord, Espy.....
6977	Columbia County Garden Special.....	Fred E. Lord, Espy.....
5603	Columbia County High Analysis Special.....	Fred E. Lord, Espy.....
6976	Columbia County High Analysis Special.....	Fred E. Lord, Espy.....
5600	Columbia County Potato Special.....	Fred E. Lord, Espy.....
6021	Columbia County Potato Special.....	Fred E. Lord, Espy.....
6597	Columbia County Potato Special.....	Fred E. Lord, Espy.....
6979	Columbia County Potato Special.....	Fred E. Lord, Espy.....
5599	Columbia County Spring Special.....	Fred E. Lord, Espy.....
6978	Columbia County Spring Special.....	Fred E. Lord, Espy.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.72	1.60	8.75	9.00	8.43	8.00	0.32	1.00	5.07	5.00	5.07	....	30.60	5065
1.78	1.60	8.90	9.00	8.52	8.00	0.38	1.00	4.95	5.00	4.95	....	....	6912
1.78	1.60	9.31	9.00	8.71	8.00	0.60	1.00	5.12	5.00	5.12	....	29.20	6770
1.67	1.60	9.31	9.00	8.87	8.00	0.44	1.00	5.10	5.00	5.10	....	30.25	7393
1.73	1.60	9.13	9.00	8.85	8.00	0.28	1.00	4.83	5.00	4.83	....	....	5041
1.72	1.60	8.80	9.00	8.54	8.00	0.26	1.00	4.95	5.00	4.95	....	....	7168
1.83	1.60	9.35	9.00	9.07	8.00	0.28	1.00	7.82	5.00	7.82	....	29.50	5956
1.64	1.60	12.78	13.00	12.42	12.00	0.36	1.00	2.36	2.00	2.36	....	27.50	5881
1.72	1.60	12.86	13.00	12.26	12.00	0.60	1.00	2.21	2.00	2.21	....	29.60	6773
1.72	1.60	13.27	13.00	12.73	12.00	0.54	1.00	2.14	2.00	2.14	....	30.00	7394
1.83	1.60	12.58	13.00	12.40	12.00	0.18	1.00	2.70	2.00	2.70	....	....	5043
1.67	1.60	12.99	13.00	12.31	12.00	0.68	1.00	2.24	2.00	2.24	....	....	7171
1.67	1.60	8.62	9.00	8.14	8.00	0.48	1.00	10.66	10.00	10.66	....	31.50	5883
1.72	1.60	8.46	9.00	7.94	8.00	0.52	1.00	10.85	10.00	10.85	....	35.45	5063
1.75	1.60	9.77	9.00	9.53	8.00	0.24	1.00	*8.38	10.00	8.38	....	....	5045
1.70	1.60	8.93	9.00	8.25	8.00	0.68	1.00	10.68	10.00	10.68	....	34.00	7336
3.26	3.20	8.71	9.00	8.49	8.00	0.22	1.00	7.01	7.00	7.01	....	38.55	5066
3.14	3.20	8.95	9.00	8.09	8.00	0.86	1.00	7.59	7.00	7.59	....	37.85	5966
3.34	3.20	9.62	9.00	8.30	8.00	1.32	1.00	*6.45	7.00	6.45	....	....	5042
3.26	3.20	8.62	9.00	8.50	8.00	0.12	1.00	6.90	7.00	6.90	....	35.15	6548
2.60	2.40	12.76	13.00	12.22	12.00	0.54	1.00	5.06	5.00	5.06	....	36.90	6774
2.57	2.40	12.42	13.00	12.00	12.00	0.42	1.00	5.26	5.00	5.26	....	....	5040
 *0.93	1.64	13.54	9.00	12.46	8.00	1.08	1.00	*8.77	10.00	8.77	....	32.50	6315
1.06	0.82	9.67	10.00	9.59	9.00	0.08	1.00	4.08	4.00	4.08	....	....	5055
1.01	0.82	9.31	10.00	9.21	9.00	0.10	1.00	4.15	4.00	4.15	....	30.00	6514
0.98	0.82	9.15	10.00	9.07	9.00	0.08	1.00	4.64	4.00	4.64	....	26.50	5210
1.07	0.82	9.36	10.00	9.26	9.00	0.10	1.00	4.22	4.00	4.22	....	25.50	7044
1.78	1.65	8.57	9.00	8.41	8.00	0.16	1.00	8.05	5.00	8.05	....	28.50	5926
1.78	1.65	8.57	9.00	8.51	8.00	0.06	1.00	4.97	5.00	4.97	....	....	7172
1.73	1.65	8.25	9.00	8.23	8.00	0.02	1.00	5.22	5.00	5.22	....	31.55	6303
1.76	1.65	8.75	9.00	8.67	8.00	0.08	1.00	5.00	5.00	5.00	....	....	5054
1.69	1.65	7.91	9.00	7.83	8.00	0.08	1.00	5.59	5.00	5.59	....	30.00	5208
1.75	1.65	8.29	9.00	8.23	8.00	0.06	1.00	5.53	5.00	5.53	....	28.00	7043
1.72	1.65	8.56	9.00	8.40	8.00	0.16	1.00	*9.73	10.00	9.73	....	33.30	5927
1.72	1.65	8.52	9.00	8.50	8.00	0.02	1.00	*9.42	10.00	9.42	....	36.25	6302
1.59	1.65	8.21	9.00	8.13	8.00	0.08	1.00	10.18	10.00	10.18	....	33.50	6516
1.75	1.65	8.36	9.00	8.30	8.00	0.06	1.00	10.45	10.00	10.45	....	34.00	7045
1.69	1.65	12.79	13.00	12.61	12.00	0.18	1.00	5.64	5.00	5.64	....	33.00	6235
1.79	1.65	11.86	13.00	*11.70	12.00	0.16	1.00	5.52	5.00	5.52	....	32.00	6517
2.63	2.47	12.68	13.00	12.50	12.00	0.18	1.00	6.93	6.00	6.93	....	35.00	6236
*3.04	3.29	9.06	9.00	9.00	8.00	0.06	1.00	7.17	7.00	7.17	....	37.00	6237
3.20	3.29	8.83	9.00	8.81	8.00	0.02	1.00	*6.59	7.00	6.59	....	39.35	6301
3.22	3.29	8.01	9.00	7.95	8.00	0.06	1.00	7.62	7.00	7.62	....	37.75	5207
3.43	3.29	8.55	9.00	8.51	8.00	0.04	1.00	*6.70	7.00	6.70	....	36.00	7046
*2.93	3.29	16.38	17.00	15.88	16.00	0.50	1.00	*3.74	4.00	3.74	....	40.00	6518
4.16	4.11	11.76	10.50	11.48	10.00	0.28	0.50	5.40	5.00	5.40	....	34.00	5602
4.16	4.11	11.51	10.50	11.29	10.00	0.22	0.50	5.48	5.00	5.48	....	34.00	6595
4.45	4.11	11.54	10.50	11.16	10.00	0.38	0.50	5.11	5.00	5.11	....	34.00	6977
3.57	3.29	22.39	20.50	20.83	20.00	1.56	0.50	8.57	8.00	8.57	....	44.00	5603
3.45	3.29	21.53	20.50	20.97	20.00	0.56	0.50	9.27	8.00	9.27	....	44.00	6976
1.81	1.64	9.22	8.50	8.90	8.00	0.32	0.50	10.36	10.00	10.36	....	28.90	5600
1.83	1.64	8.55	8.50	8.29	8.00	0.26	0.50	10.63	10.00	10.63	....	28.90	6021
1.92	1.64	9.52	8.50	9.16	8.00	0.36	0.50	10.31	10.00	10.31	....	29.00	6597
1.69	1.64	9.08	8.50	8.68	8.00	0.40	0.50	10.96	10.00	10.96	....	28.90	6979
1.94	1.64	11.82	10.50	11.44	10.00	0.38	0.50	4.72	4.00	4.72	....	25.80	5599
1.73	1.64	11.49	10.50	11.11	10.00	0.38	0.50	5.10	4.00	5.10	....	25.80	6978

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>THE MAPES FORMULA &amp; PERUVIAN GUANO CO., NEW YORK, N. Y.</b>	
5935	The Mapes General Tobacco Manure.....	Joseph K. Shultz Estate, Washington Boro.....
5936	The Mapes Tobacco Starter Special.....	Joseph K. Shultz Estate, Washington Boro.....
	<b>THE FREDERICK MEHRING FERTILIZER WORKS, INC., KEYMAR, MD.</b>	
5343	Mehring's Big Four.....	L. B. Frohmyer, Littlestown.....
6903	Mehring's Big Four.....	E. Charles Mathias & Son, Littlestown.....
5709	Mehring's Early Truck Guano.....	West Manheim Farmers Association, Hanover...
5344	Mehring's Mammoth Truck Grower.....	L. B. Frohmyer, Littlestown.....
6904	Mehring's Mammoth Truck Grower.....	E. Charles Mathias & Son, Littlestown.....
5711	Mehring's Mammoth Truck Grower.....	West Manheim Farmers' Association, Hanover....
	<b>THE MILLER FERTILIZER CO., BALTIMORE, MD.</b>	
7177	Miller's 2-8-5.....	M. C. Deitz's Sons, Mechanicsburg.....
7057	Miller's 2-8-5.....	T. H. Donnelly, Water Street.....
5062	Miller's 2-8-5.....	John Greenleaf, Quarryville.....
7039	Miller's 2-8-5.....	W. B. Hartman, Shoemakersville.....
5628	Miller's 2-8-5.....	H. J. Lindner & Son, Pottsgrove.....
6699	Miller's 2-8-5.....	H. J. Lindner & Son, Pottsgrove.....
5920	Miller's 2-8-5.....	W. W. Shoemaker, Walnutport.....
5112	Miller's 2-8-5.....	Strite & Eshelman, Greencastle.....
6816	Miller's 2-8-5.....	Walker Brothers, Chambersburg.....
7180	Miller's 2-12-4.....	M. C. Deitz's Sons, Mechanicsburg.....
7305	Miller's 2-12-4.....	David Farley, Montgomery.....
7067	Miller's 2-12-4.....	Grain & Supply Co., Milroy.....
7040	Miller's 2-12-4.....	W. B. Hartman, Shoemakersville.....
5955	Miller's 2-12-4.....	H. J. Lindner & Son, Pottsgrove.....
6854	Miller's 2-12-4.....	H. J. Lindner & Son, Pottsgrove.....
5903	Miller's 2-12-4.....	F. H. Shenberger, Red Lion.....
5150	Miller's 2-12-4.....	Walker Brothers, Chambersburg.....
6815	Miller's 2-12-4.....	Walker Brothers, Chambersburg.....
6304	Miller's 3-10-6.....	Bittner Brothers & Co., Germansville.....
5381	Miller's 3-10-6.....	M. C. Deitz's Sons, Mechanicsburg.....
5922	Miller's 3-10-6.....	W. W. Shoemaker, Walnutport.....
5093	Miller's 4-8-7.....	W. R. Black, Orbisonia.....
5672	Miller's 4-8-7.....	R. S. Blaine, Turbotville.....
5916	Miller's 4-8-7.....	Eugene George, Aquashicola.....
7457	Miller's 4-8-7.....	Charles M. Harter, Wapwallopen.....
5902	Miller's 4-8-7.....	F. H. Shenberger, Red Lion.....
5380	Miller's Early Trucker 5-8-5.....	M. C. Deitz's Sons, Mechanicsburg.....
5953	Miller's Early Trucker 5-8-5.....	H. J. Lindner & Son, Pottsgrove.....
5671	Miller's Farmers Profit 2-10-4.....	R. S. Blaine, Turbotville.....
6836	Miller's Farmers Profit 2-10-4.....	R. S. Blaine, Turbotville.....
5876	Miller's Farmers Profit 2-10-4.....	M. T. Harkins, Oxford.....
6380	Miller's Grass and Grain 2-9-3.....	Grain & Supply Co., Milroy.....
7458	Miller's Grass and Grain 2-9-3.....	Charles M. Harter, Wapwallopen.....
6860	Miller's Grass and Grain 2-9-3.....	S. R. Iddings, Mifflinburg.....
5900	Miller's Grass and Grain 2-9-3.....	F. H. Shenberger, Red Lion.....
5111	Miller's Grass and Grain 2-9-3.....	Strite & Eshelman, Greencastle.....
5090	Miller's Harvest Queen 1-9-4.....	W. R. Black, Orbisonia.....
7179	Miller's Harvest Queen 1-9-4.....	M. C. Deitz's Sons, Mechanicsburg.....
5914	Miller's Harvest Queen 1-9-4.....	Eugene George, Aquashicola.....
7071	Miller's Harvest Queen 1-9-4.....	Ross E. Goodman, Huntingdon.....
7456	Miller's Harvest Queen 1-9-4.....	Charles M. Harter, Wapwallopen.....
7041	Miller's Harvest Queen 1-9-4.....	W. B. Hartman, Shoemakersville.....
5630	Miller's Harvest Queen 1-9-4.....	H. J. Lindner & Son, Pottsgrove.....
6700	Miller's Harvest Queen 1-9-4.....	H. J. Lindner & Son, Pottsgrove.....
5901	Miller's Harvest Queen 1-9-4.....	F. H. Shenberger, Red Lion.....
7178	Miller's Pimlico 2-8-10.....	M. C. Deitz's Sons, Mechanicsburg.....
7300	Miller's Pimlico 2-8-10.....	David Farley, Montgomery.....
5915	Miller's Pimlico 2-8-10.....	Eugene George, Aquashicola.....
7069	Miller's Pimlico 2-8-10.....	Ross E. Goodman, Huntingdon.....
6088	Miller's Pimlico 2-8-10.....	D. H. Gregory, Russell.....
7038	Miller's Pimlico 2-8-10.....	W. B. Hartman, Shoemakersville.....

## FERTILIZERS—Continued.

NITROGEN		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.28	4.12	5.59	.....	4.33	4.00	1.26	.....	5.56	5.00	.....	5.56	54.00	5935
4.32	4.12	7.97	8.00	5.93	6.00	2.04	2.00	3.82	3.00	.....	3.82	48.00	5936
0.96	0.82	9.83	10.00	8.99	9.00	0.84	1.00	4.13	4.00	4.13	.....	23.00	5343
1.14	0.82	10.43	10.00	9.05	9.00	1.38	1.00	4.13	4.00	4.13	.....	24.00	6903
3.30	3.28	8.06	9.00	*7.54	8.00	0.52	1.00	8.03	7.00	8.03	.....	.....	5709
1.73	1.64	8.80	9.00	8.16	8.00	0.64	1.00	5.21	5.00	5.21	.....	26.00	5344
1.83	1.64	9.24	9.00	8.24	8.00	1.00	1.00	5.03	5.00	5.03	.....	27.06	6904
1.79	1.64	8.93	9.00	8.25	8.00	0.68	1.00	6.00	5.00	6.00	.....	.....	5711
1.66	1.65	8.85	8.50	8.43	8.00	0.42	0.50	5.15	5.00	5.15	.....	28.25	7177
1.65	1.65	8.65	8.50	8.13	8.00	0.52	0.50	5.26	5.00	5.26	.....	.....	7057
1.80	1.65	9.15	8.50	8.49	8.00	0.66	0.50	*4.61	5.00	4.61	.....	.....	5062
1.74	1.65	9.82	8.50	8.04	8.00	1.78	0.50	5.21	5.00	5.21	.....	26.95	7039
1.73	1.65	9.07	8.50	8.41	8.00	0.66	0.50	5.17	5.00	5.17	.....	28.65	5628
1.84	1.65	8.93	8.50	8.37	8.00	0.56	0.50	5.24	5.00	5.24	.....	27.85	6699
1.96	1.65	9.10	8.50	8.44	8.00	0.66	0.50	5.96	5.00	5.96	.....	28.00	5920
1.65	1.65	9.44	8.50	8.40	8.00	1.04	0.50	5.21	5.00	5.21	.....	27.00	5112
1.67	1.65	8.98	8.50	8.54	8.00	0.44	0.50	5.14	5.00	5.14	.....	28.50	6816
1.65	1.65	13.20	12.50	12.64	12.00	0.56	0.50	4.24	4.00	4.24	.....	30.75	7180
1.80	1.65	13.10	12.50	12.36	12.00	0.74	0.50	4.04	4.00	4.04	.....	.....	7305
1.66	1.65	12.70	12.50	12.10	12.00	0.60	0.50	4.29	4.00	4.29	.....	28.00	7067
1.78	1.65	13.33	12.50	12.63	12.00	0.70	0.50	4.26	4.00	4.26	.....	.....	7040
1.85	1.65	12.88	12.50	12.32	12.00	0.56	0.50	4.25	4.00	4.25	.....	31.00	5955
1.76	1.65	12.76	12.50	12.02	12.00	0.74	0.50	4.16	4.00	4.16	.....	30.25	6854
1.67	1.65	12.81	12.50	12.13	12.00	0.68	0.50	4.23	4.00	4.23	.....	29.75	5903
2.07	1.65	12.63	12.50	12.03	12.00	0.60	0.50	4.16	4.00	4.16	.....	.....	5150
1.69	1.65	13.15	12.50	12.49	12.00	0.66	0.50	4.09	4.00	4.09	.....	30.60	6815
2.55	2.47	10.28	10.50	9.84	10.00	0.44	0.50	*5.72	6.00	5.72	.....	33.00	6304
2.38	2.47	10.41	10.50	9.83	10.00	0.58	0.50	6.04	6.00	6.04	.....	.....	5381
2.56	2.47	10.05	10.50	*9.57	10.00	0.48	0.50	6.72	6.00	6.72	.....	34.15	5922
3.89	3.29	8.67	8.50	8.23	8.00	0.44	0.50	8.15	7.00	8.15	.....	40.00	5093
*2.95	3.29	9.29	8.50	8.91	8.00	0.38	0.50	7.24	7.00	7.24	.....	37.50	5672
*3.07	3.29	9.71	8.50	9.17	8.00	0.54	0.50	6.94	7.00	6.94	.....	39.00	5916
3.33	3.29	7.91	8.50	*7.57	8.00	0.34	0.50	7.48	7.00	7.48	.....	37.45	7457
3.25	3.29	9.31	8.50	8.59	8.00	0.72	0.50	*6.70	7.00	6.70	.....	35.25	5902
4.21	4.11	9.24	8.50	8.66	8.00	0.58	0.50	*4.69	5.00	4.69	.....	.....	5380
4.09	4.11	8.97	8.50	8.55	8.00	0.42	0.50	5.60	5.00	5.66	.....	37.50	5953
1.83	1.65	10.41	10.50	*9.71	10.00	0.70	0.50	4.00	4.00	4.00	.....	31.00	5671
1.73	1.65	10.69	10.50	10.23	10.00	0.46	0.50	4.07	4.00	4.07	.....	29.00	6836
2.06	1.65	10.79	10.50	10.05	10.00	0.74	0.50	4.86	4.00	4.86	.....	.....	5876
1.82	1.65	9.78	9.50	9.18	9.00	0.60	0.50	3.06	3.00	3.06	.....	.....	6380
1.58	1.65	9.46	9.50	*8.78	9.00	0.68	0.50	4.09	3.00	4.09	.....	28.50	7458
1.60	1.65	10.13	9.50	9.55	9.00	0.58	0.50	3.91	3.00	3.91	.....	27.70	6860
1.73	1.65	9.73	9.50	9.07	9.00	0.66	0.50	3.41	3.00	3.41	.....	27.00	5900
1.67	1.65	10.35	9.50	9.43	9.00	0.92	0.50	3.38	3.00	3.38	.....	26.50	5111
1.02	0.82	9.59	9.50	9.03	9.00	0.56	0.50	4.38	4.00	4.38	.....	29.00	5090
0.94	0.82	10.20	9.50	9.38	9.00	0.82	0.50	4.34	4.00	4.34	.....	25.00	7179
0.96	0.82	9.64	9.50	9.00	9.00	0.64	0.50	4.38	4.00	4.38	.....	25.50	5914
1.01	0.82	10.03	9.50	9.59	9.00	0.44	0.50	4.43	4.00	4.43	.....	.....	7071
1.32	0.82	10.23	9.50	9.39	9.00	0.84	0.50	4.39	4.00	4.39	.....	26.50	7456
0.95	0.82	9.95	9.50	8.85	9.00	1.10	0.50	4.11	4.00	4.11	.....	.....	7041
0.91	0.82	9.98	9.50	9.44	9.00	0.54	0.50	4.94	4.00	4.94	.....	25.50	5630
0.97	0.82	9.57	9.50	9.27	9.00	0.30	0.50	4.03	4.00	4.03	.....	24.50	6700
0.86	0.82	8.87	9.50	9.19	9.00	0.68	0.50	4.09	4.00	4.09	.....	25.00	5901
1.60	1.65	8.90	8.50	8.50	8.00	0.40	0.50	9.94	10.00	9.94	.....	33.50	7178
1.76	1.65	9.27	8.50	8.97	8.00	0.30	0.50	10.00	10.00	10.00	.....	30.80	7300
1.85	1.65	8.80	8.50	8.18	8.00	0.62	0.50	10.45	10.00	10.45	.....	34.06	5915
1.55	1.65	9.36	8.50	8.92	8.00	0.44	0.50	*9.32	10.00	9.32	.....	.....	7069
1.80	1.65	8.93	8.50	8.23	8.00	0.70	0.50	*9.58	10.00	9.58	.....	37.00	6088
1.83	1.65	9.18	8.50	*7.62	8.00	1.56	0.50	10.46	10.00	10.46	.....	31.65	7038

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
5386	Miller's Pimlico 2-8-10.....		Herman Keebler, Montoursville.....	
5629	Miller's Pimlico 2-8-10.....		H. J. Lindner & Son, Pottsgrove.....	
6992	Miller's Pimlico 2-8-10.....		H. J. Lindner & Son, Pottsgrove.....	
6818	Miller's Pimlico 2-8-10.....		Walker Brothers, Chambersburg.....	
7070	Miller's Wheat and Grass Grower 2-12-2.....		Ross E. Goodman, Huntingdon.....	
7042	Miller's Wheat and Grass Grower 2-12-2.....		W. B. Hartman, Shoemakersville.....	
5954	Miller's Wheat and Grass Grower 2-12-2.....		H. J. Lindner & Son, Pottsgrove.....	
6852	Miller's Wheat and Grass Grower 2-12-2.....		H. J. Lindner & Son, Pottsgrove.....	
5885	Scott's Potato and Truck Special 2-8-5.....		Atglen Warehouse Co., Atglen.....	
5884	Scott's Potato Grower 2-8-10.....		Atglen Warehouse Co., Atglen.....	
MORTON FERTILIZER CO., BALTIMORE, MD.				
7061	Morton's 2-12-6.....		H. O. Andrews & Sons, Mapleton Depot.....	
7333	Morton's 2-12-6.....		J. H. Loose, Berne.....	
7450	Morton's 2-12-6.....		H. B. Low & Son, Orangeville.....	
5420	Morton's Complete Fertilizer.....		J. H. Loose, Berne.....	
7334	Morton's Farmers Favorite.....		J. H. Loose, Berne.....	
5678	Morton's Gilt Edge Guano.....		William Allbeck, Strawberry Ridge.....	
7059	Morton's Harvest Queen.....		H. O. Andrews & Sons, Mapleton Depot.....	
7331	Morton's Harvest Queen.....		J. H. Loose, Berne.....	
5615	Morton's Harvest Queen.....		H. B. Low & Son, Orangeville.....	
7451	Morton's Harvest Queen.....		H. B. Low & Son, Orangeville.....	
7330	Morton's 10% Potash Fertilizer.....		J. H. Loose, Berne.....	
5614	Morton's 10% Potash Fertilizer.....		H. B. Low & Son, Orangeville.....	
7448	Morton's 10% Potash Fertilizer.....		H. B. Low & Son, Orangeville.....	
6445	Morton's Truckers Special.....		McConnell Brothers, Hughesville.....	
G. OBER & SONS CO., BALTIMORE, MD.				
7210	Ober's Special Plant Food.....		Jerome Auker, McAllisterville.....	
5322	Ober's Special Plant Food.....		J. H. Duttera, New Oxford.....	
6151	Ober's Special Plant Food.....		Petersville Milling Co., Bessemer.....	
7570	Ober's Special Plant Food.....		Peter Shaffer Sons, New Brighton.....	
5518	Ober's Special Plant Food.....		Chester Swartz, Richfield.....	
6895	Ober's Special Plant Food.....		G. R. Thompson & Son, Gettysburg.....	
5323	Ober's Stag Guano.....		J. H. Duttera, New Oxford.....	
6414	Ober's Stag Guano.....		Roy K. Louck, Connellsville.....	
6152	Ober's Stag Guano.....		Petersville Milling Co., Bessemer.....	
7569	Ober's Stag Guano.....		Peter Shaffer & Sons, New Brighton.....	
6521	Ober's Stag Guano.....		L. P. Swope & Co., Ducansville.....	
6896	Ober's Stag Guano.....		G. R. Thompsons Sons, Gettysburg.....	
5324	Ober's Starkey Truck Compound.....		J. H. Duttera, New Oxford.....	
6411	Ober's Starkey Truck Compound.....		Roy K. Louck, Connellsville.....	
5519	Ober's Starkey Truck Compound.....		Chester Swartz, Richfield.....	
6412	Ober's Superior Potato and Vegetable Grower.....		Roy K. Louck, Connellsville.....	
6520	Ober's Superior Potato and Vegetable Grower.....		L. P. Swope & Co., Ducansville.....	
THE OLD GARDENER CO., PITTSBURGH, PA.				
5445	Old Gardener High Grade Odorless.....		Clark Florist Co., Scranton.....	
OXFORD PACKING WORKS, OXFORD, PA.				
5869	O. P. W. No. 1.....		Oxford Packing Works, Oxford.....	
7244	O. P. W. No. 1.....		Oxford Packing Works, Oxford.....	
5871	O. P. W. No. 2.....		Oxford Packing Works, Oxford.....	
5870	O. P. W. Special.....		Oxford Packing Works, Oxford.....	
OYLER & SPANGLER FERTILIZER WORKS, INC., GETTYSBURG, PA.				
6300	O. & S. Crop Grower.....		Bird Brothers, Meyersdale.....	
5340	O. & S. Crop Grower.....		Oyler & Spangler Fertilizer Works, Inc., Gettysburg.....	
7140	O. & S. Crop Grower.....		J. W. Shaffer, Hanover.....	

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.84	1.65	8.62	8.50	8.02	8.00	0.60	0.50	11.19	10.00	10.70	0.49	35.35	5386
1.88	1.65	8.78	8.50	8.24	8.00	0.54	0.50	10.12	10.00	10.12	....	33.35	5629
1.60	1.65	9.29	8.50	8.77	8.00	0.52	0.50	9.85	10.00	9.85	....	32.75	6992
1.71	1.65	8.84	8.50	8.48	8.00	0.36	0.50	10.20	10.00	10.20	....	33.00	6818
1.82	1.65	12.88	12.50	12.40	12.00	0.48	0.50	2.18	2.00	2.18	....	....	7070
1.72	1.65	13.47	12.50	12.73	12.00	0.74	0.50	2.17	2.00	2.17	....	27.00	7042
1.77	1.65	12.53	12.50	*11.77	12.00	0.76	0.50	2.62	2.00	2.62	....	28.75	5954
1.60	1.65	13.27	12.50	12.47	12.00	0.80	0.50	2.13	2.00	2.13	....	28.25	6852
1.65	1.65	8.37	9.00	7.83	8.00	0.54	1.00	5.15	5.00	5.15	....	28.00	5885
1.66	1.65	8.20	9.00	*7.58	8.00	0.62	1.00	10.85	10.00	10.85	....	32.50	5884
1.54	1.64	12.54	13.60	12.06	12.00	0.48	1.00	6.98	6.00	6.98	....	32.00	7061
1.72	1.64	12.96	13.60	12.30	12.00	0.66	1.00	6.35	6.00	6.35	....	....	7333
1.80	1.64	13.56	13.00	12.86	12.00	0.70	1.00	6.29	6.00	6.29	....	30.50	7450
1.58	1.64	13.24	13.00	12.62	12.00	0.62	1.00	1.97	2.00	1.97	....	23.00	5420
1.68	1.64	9.36	9.00	8.96	8.00	0.40	1.00	5.57	5.00	5.57	....	....	7334
3.37	3.28	9.11	9.00	8.07	8.00	1.04	1.00	6.00	6.00	6.00	....	27.85	5678
0.83	0.82	10.20	10.00	9.34	9.00	0.86	1.00	3.97	4.00	3.97	....	*25.00	7059
0.89	0.82	9.98	10.00	9.24	9.00	0.74	1.00	4.23	4.00	4.23	....	....	7331
0.91	0.82	10.97	10.00	9.65	9.00	1.32	1.00	4.04	4.00	4.04	....	26.00	5615
0.88	0.82	9.73	10.00	9.07	9.00	0.66	1.00	4.14	4.00	4.14	....	25.00	7451
1.77	1.64	8.71	9.60	8.29	8.00	0.42	1.00	10.39	10.00	10.39	....	....	7330
1.55	1.64	9.49	9.00	8.71	8.00	0.78	1.00	*9.41	10.00	9.41	....	30.50	5614
1.62	1.64	8.67	9.00	8.25	8.00	0.42	1.00	10.25	10.00	10.25	....	31.00	7448
4.16	4.10	9.85	9.00	8.89	8.00	0.96	1.00	*6.78	7.00	6.78	....	40.75	6445
1.63	1.65	10.20	10.00	9.00	9.00	1.20	1.00	4.93	5.00	4.93	....	30.00	7210
*1.39	1.65	11.66	10.00	9.54	9.00	1.52	1.00	5.13	5.00	5.13	....	31.60	5322
1.73	1.65	9.45	10.00	*8.51	9.00	0.94	1.00	4.98	5.00	4.98	....	31.50	6151
1.71	1.65	10.28	10.00	9.14	9.00	1.14	1.00	5.90	5.00	5.90	....	31.50	7570
1.78	1.65	9.74	10.00	*8.46	9.00	1.28	1.00	4.97	5.00	4.97	....	....	5518
1.66	1.65	10.17	10.00	9.07	9.00	1.10	1.60	5.10	5.00	5.10	....	....	6895
1.06	0.82	10.33	10.00	9.19	9.00	1.14	1.00	4.06	4.00	4.06	....	27.50	5323
1.64	0.82	10.42	10.00	9.18	9.00	1.24	1.00	3.94	4.00	3.94	....	....	6414
1.09	0.82	10.47	10.00	9.13	9.00	1.34	1.00	4.02	4.00	4.02	....	27.50	6152
1.00	0.82	10.35	10.00	8.97	9.00	1.38	1.00	4.22	4.60	4.22	....	27.60	7569
1.11	0.82	10.43	10.00	9.01	9.00	1.42	1.00	4.33	4.00	4.33	....	29.00	6521
0.94	0.82	10.42	10.00	9.04	9.00	1.38	1.00	*3.66	4.00	3.66	....	....	6896
3.30	3.30	8.46	9.00	7.92	8.00	0.54	1.00	5.00	5.00	5.00	....	38.00	5324
3.12	3.30	8.83	9.00	8.05	8.00	0.78	1.00	5.19	5.00	5.19	....	44.00	6411
3.31	3.30	8.42	9.60	*7.72	8.00	0.70	1.00	5.05	5.60	5.05	....	....	5519
1.74	1.65	9.44	9.00	8.28	8.00	1.16	1.00	*9.50	10.00	9.50	....	42.00	6412
1.79	1.65	9.78	9.00	7.85	8.00	1.93	1.60	10.10	10.00	10.10	....	38.00	6520
2.77	2.50	11.54	11.00	10.10	10.00	1.44	1.60	4.24	4.00	4.24	....	†....	5445
1.57	1.64	10.15	9.00	9.49	8.00	0.66	1.60	5.82	5.00	5.82	....	29.60	5869
1.49	1.64	9.12	9.00	8.32	8.00	0.80	1.00	5.36	5.00	5.36	....	30.00	7244
1.55	1.64	11.02	11.00	10.34	10.00	0.68	1.00	2.50	2.00	2.50	....	28.00	5871
1.72	1.64	9.44	9.00	8.90	8.00	0.54	1.60	10.36	10.00	10.36	....	34.00	5870
0.97	0.82	9.50	9.50	9.04	9.00	0.46	0.50	3.91	4.00	3.91	....	27.00	6300
0.97	0.82	9.07	9.50	*8.67	9.00	0.40	0.50	4.94	4.00	4.94	....	....	5340
0.97	0.82	10.38	9.50	10.00	9.00	0.38	0.50	4.17	4.00	4.17	....	....	7140

\*Deficient.

†Sold at the rate of 25 cts. per can.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
5341	O. & S. Excelsior.....		Oyler & Spangler Fertilizer Works, Inc., Gettysburg.....	
7139	O. & S. Excelsior.....		J. W. Shaffer, Hanover.....	
6299	O. & S. Potato Special.....		Bird Brothers, Meyersdale.....	
5339	O. & S. Wheat Special.....		Oyler & Spangler Fertilizer Works, Inc., Gettysburg.....	
PATUXENT GUANO CO., BALTIMORE, MD.				
6621	Beaver Brand Guano 1-9-4.....		Beckert Seed Store, Pittsburgh.....	
6431	Beaver Brand Guano 1-9-4.....		Charles A. B. Bower, Montgomery.....	
7294	Beaver Brand Guano 1-9-4.....		Charles A. B. Bower, Montgomery.....	
5133	Beaver Brand Guano 1-9-4.....		Chambersburg Grain Co., Chambersburg.....	
6911	Beaver Brand Guano 1-9-4.....		Dillsburg Grain & Milling Co., Dillsburg.....	
5463	Beaver Brand Guano 1-9-4.....		Charles M. Harter, Wapwallopen.....	
6862	Beaver Brand Guano 1-9-4.....		J. P. Walters, Vicksburg.....	
6864	Patuxent Big Yield 1-9-5.....		F. T. Baker, Lewisburg.....	
7176	Patuxent Big Yield 1-9-5.....		M. C. Deitz's Sons, Mechanicsburg.....	
5319	Patuxent Big Yield 1-9-5.....		Dillsburg Grain & Milling Co., Dillsburg.....	
6909	Patuxent Big Yield 1-9-5.....		Dillsburg Grain & Milling Co., Dillsburg.....	
5623	Patuxent Champion Fertilizer 2-8-5.....		F. M. Bitler, Danville.....	
6429	Patuxent Champion Fertilizer 2-8-5.....		Charles A. B. Bower, Montgomery.....	
5128	Patuxent Champion Fertilizer 2-8-5.....		Chambersburg Grain Co., Chambersburg.....	
7174	Patuxent Champion Fertilizer 2-8-5.....		M. C. Deitz's Sons, Mechanicsburg.....	
6910	Patuxent Champion Fertilizer 2-8-5.....		Dillsburg Grain & Milling Co., Dillsburg.....	
7379	Patuxent Champion Fertilizer 2-8-5.....		E. O. Seaman, Watsonstown.....	
6610	Patuxent Early Trucker 5-7-5.....		C. M. Harter, Wapwallopen.....	
6193	Patuxent Enterprise Fertilizer 4-8-7.....		F. T. Baker, Lewisburg.....	
6430	Patuxent Enterprise Fertilizer 4-8-7.....		Charles A. B. Bower, Montgomery.....	
5315	Patuxent Enterprise Fertilizer 4-8-7.....		Dillsburg Grain & Milling Co., Dillsburg.....	
5464	Patuxent Enterprise Fertilizer 4-8-7.....		C. M. Harter, Wapwallopen.....	
5626	Patuxent Farmers Friend 2-12-2.....		F. M. Bitler, Danville.....	
5318	Patuxent Farmers Friend 2-12-2.....		Dillsburg Grain & Milling Co., Dillsburg.....	
5627	Patuxent Grain and Clover Producer 1-8-5.....		F. M. Bitler, Danville.....	
7173	Patuxent Grain and Clover Producer 1-8-5.....		M. C. Deitz's Sons, Mechanicsburg.....	
5316	Patuxent Grain and Clover Producer 1-8-5.....		Dillsburg Grain & Milling Co., Dillsburg.....	
7297	Patuxent Plant Food 2-12-4.....		Charles A. B. Bower, Montgomery.....	
6906	Patuxent Plant Food 2-12-4.....		Dillsburg Grain & Milling Co., Dillsburg.....	
7391	Patuxent Plant Food 2-12-4.....		W. H. Snyder, Winfield.....	
5148	Patuxent Plant Food 2-12-4.....		Walker Brothers, Chambersburg.....	
6619	Patuxent Potato and Truck Guano 4-8-4.....		Beckert Seed Store, Pittsburgh.....	
5147	Patuxent Potato and Vegetable Compound 3-10-6.....		Walker Brothers, Chambersburg.....	
6432	Patuxent Tip Top Fertilizer 2-8-10.....		Charles A. B. Bower, Montgomery.....	
7295	Patuxent Tip Top Fertilizer 2-8-10.....		Charles A. B. Bower, Montgomery.....	
6907	Patuxent Tip Top Fertilizer 2-8-10.....		Dillsburg Grain & Milling Co., Dillsburg.....	
5465	Patuxent Tip Top Fertilizer 2-8-10.....		C. M. Harter, Wapwallopen.....	
5146	Patuxent Tip Top Fertilizer 2-8-10.....		Walker Brothers, Chambersburg.....	
6861	Patuxent Tip Top Fertilizer 2-8-10.....		J. P. Walters, Vicksburg.....	
PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.				
6048	Piedmont 2-12-4 Fertilizer.....		B. F. Horting, Newport.....	
5618	Piedmont 2-12-4 Fertilizer.....		H. B. Low & Son, Orangeville.....	
7445	Piedmont 2-12-4 Fertilizer.....		H. B. Low & Son, Orangeville.....	
6506	Piedmont 2-12-4 Fertilizer.....		H. M. Mohler, Carrolltown.....	
6819	Piedmont 2-12-4 Fertilizer.....		Walker Brothers, Chambersburg.....	
6125	Piedmont 2-12-6 Fertilizer.....		H. O. Andrews & Son, Mapleton Depot.....	
6667	Piedmont 3-12-5 Fertilizer.....		Kline Grain Co., Shelocta.....	
5235	Piedmont 4-8-6 Fertilizer.....		Ditz & Mooney, Clarion.....	
5617	Piedmont 4-8-6 Fertilizer.....		H. B. Low & Son, Orangeville.....	
6118	Piedmont 4-8-6 Fertilizer.....		A. G. Smith, Mt. Union.....	
6212	Piedmont 4-16-4 Fertilizer.....		H. B. Low & Son, Orangeville.....	
5234	Piedmont Farmers Favorite.....		Ditz & Mooney, Clarion.....	
6134	Piedmont Farmers Favorite.....		W. H. Heckert & Son, Bakerstown.....	

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.78	1.65	9.07	8.50	8.01	8.00	1.06	0.50	5.21	5.00	5.21	.....	.....	5341
1.75	1.65	9.32	8.50	8.58	8.00	0.74	0.50	5.35	5.00	5.35	.....	.....	7139
*3.08	3.29	9.82	8.50	9.18	8.00	0.64	0.50	*6.70	7.00	6.70	.....	36.20	6299
1.97	1.65	12.16	12.50	11.86	12.00	0.30	0.50	4.48	4.00	4.48	.....	.....	5339
1.72	0.85	9.49	10.00	*8.39	9.00	1.10	1.00	4.94	4.00	4.94	.....	34.00	6621
0.97	0.85	9.82	10.00	9.06	9.00	0.76	1.00	4.08	4.00	4.08	.....	25.70	6431
0.98	0.82	10.20	10.00	9.34	9.00	0.86	1.00	4.27	4.00	4.27	.....	26.50	7294
0.87	0.85	9.69	10.00	9.09	9.00	0.60	1.00	4.12	4.00	4.12	.....	26.00	5133
1.02	0.82	10.03	10.00	9.15	9.00	0.88	1.00	4.27	4.00	4.27	.....	27.76	6911
0.95	0.85	9.54	10.00	*8.78	9.00	0.76	1.00	4.13	4.00	4.13	.....	25.50	5463
0.91	0.82	9.95	10.00	9.03	9.00	0.92	1.00	4.23	4.00	4.23	.....	26.00	6862
1.00	0.82	10.37	10.00	9.37	9.00	1.00	1.00	*4.50	5.00	4.50	.....	28.50	6864
1.08	0.82	10.43	10.00	9.33	9.00	1.10	1.00	5.20	5.00	5.20	.....	29.50	7176
0.93	0.85	10.01	10.00	9.25	9.00	0.76	1.00	5.06	5.00	5.06	.....	28.00	5319
0.98	0.82	10.56	10.00	9.54	9.00	1.02	1.00	*4.59	5.00	4.59	.....	21.70	6909
1.73	1.65	8.42	9.00	8.20	8.00	0.22	1.00	5.30	5.00	5.30	.....	28.65	5623
1.74	1.65	9.44	9.00	8.70	8.00	0.74	1.00	4.85	5.00	4.85	.....	28.65	6429
1.75	1.65	8.69	9.00	8.07	8.00	0.62	1.00	4.96	5.00	4.96	.....	29.00	5128
1.66	1.65	9.22	9.00	8.40	8.00	0.82	1.00	5.32	5.00	5.32	.....	28.25	7174
1.72	1.65	9.07	9.00	8.07	8.00	1.00	1.00	5.14	5.00	5.14	.....	24.00	6910
1.65	1.65	9.18	9.00	8.44	8.00	0.74	1.00	5.54	5.00	5.54	.....	28.75	7379
4.23	4.10	8.80	7.50	7.96	7.00	0.84	0.50	5.88	5.00	5.88	.....	38.55	6610
3.24	3.29	9.32	9.00	8.44	8.00	0.88	1.00	7.83	7.00	7.83	.....	39.00	6193
3.35	3.29	9.54	9.00	8.78	8.00	0.76	1.00	8.10	7.00	8.10	.....	36.45	6430
3.14	3.29	10.00	9.00	9.28	8.00	0.72	1.00	7.11	7.00	7.11	.....	37.50	5315
3.41	3.29	9.01	9.00	8.15	8.00	0.86	1.00	7.38	7.00	7.38	.....	36.45	5464
1.78	1.65	12.77	13.00	12.41	12.00	0.36	1.00	2.29	2.00	2.29	.....	28.80	5626
1.87	1.65	12.79	13.00	12.07	12.00	0.72	1.00	2.06	2.00	2.06	.....	30.65	5318
0.94	0.85	8.75	9.00	8.27	8.00	0.48	1.00	5.24	5.00	5.24	.....	25.70	5627
1.07	0.82	9.99	9.00	8.89	8.00	1.10	1.00	5.30	5.00	5.30	.....	25.00	7173
1.01	0.85	9.32	9.00	8.30	8.00	1.02	1.00	5.04	5.00	5.04	.....	27.40	5316
1.73	1.65	13.01	13.00	12.01	12.00	1.00	1.00	4.04	4.00	4.04	.....	30.00	7297
1.65	1.65	13.01	13.00	11.91	12.00	1.10	1.00	4.55	4.00	4.55	.....	26.45	6906
1.61	1.65	13.52	13.00	12.48	12.00	1.04	1.00	4.23	4.00	4.23	.....	.....	7391
1.93	1.65	12.86	13.00	12.38	12.00	0.48	1.00	4.28	4.00	4.28	.....	.....	5148
3.36	3.29	9.10	9.00	8.16	8.00	0.94	1.00	4.39	4.00	4.39	.....	†120.00	6619
2.64	2.47	10.79	11.00	10.03	10.00	0.76	1.00	*5.74	6.00	5.74	.....	.....	5147
2.06	1.65	9.87	9.00	8.99	8.00	0.88	1.00	*9.38	10.00	9.38	.....	33.35	6132
1.65	1.65	9.44	9.00	8.56	8.00	0.88	1.00	*9.71	10.00	9.71	.....	31.50	7295
1.66	1.65	9.35	9.00	8.21	8.00	1.14	1.00	*9.72	10.00	9.72	.....	28.95	6907
1.77	1.65	8.66	9.60	8.16	8.00	0.50	1.00	10.37	10.00	10.37	.....	33.35	5465
1.82	1.65	9.08	9.00	8.34	8.00	0.74	1.00	10.00	10.00	10.00	.....	.....	5146
1.62	1.65	9.12	9.00	8.12	8.00	1.00	1.00	9.87	10.00	9.87	.....	34.00	6861
2.02	1.65	13.30	13.00	12.00	12.00	1.30	1.00	4.50	4.00	4.50	.....	31.10	6048
2.12	1.65	13.14	13.00	12.04	12.00	1.10	1.00	4.30	4.00	4.30	.....	28.50	5618
1.86	1.65	13.11	13.00	12.41	12.00	0.70	1.00	4.41	4.00	4.41	.....	29.00	7445
1.89	1.65	12.69	13.00	*11.63	12.00	1.06	1.00	4.45	4.50	4.45	.....	30.90	6506
1.66	1.65	12.67	13.00	12.21	12.00	0.46	1.00	4.05	4.00	4.05	.....	30.00	6819
1.82	1.65	12.85	13.60	11.89	12.00	0.96	1.00	*5.45	6.00	5.45	.....	35.50	6125
2.57	2.47	12.88	13.00	*11.68	12.00	1.20	1.00	*4.70	5.00	4.70	.....	40.00	6667
3.34	3.29	9.15	9.00	7.85	8.00	1.30	1.00	6.64	6.00	6.64	.....	35.00	5235
3.15	3.29	8.90	9.00	8.12	8.00	0.78	1.00	5.82	6.00	5.82	.....	33.00	5617
3.51	3.29	9.04	9.00	8.04	8.00	1.00	1.00	6.15	6.00	6.15	.....	37.00	6118
3.44	3.29	16.88	17.00	16.04	16.00	0.84	1.00	4.07	4.00	4.07	.....	41.50	6212
1.02	0.82	9.82	10.00	*8.36	9.00	1.46	1.00	3.88	4.00	3.88	.....	25.00	5234
0.85	0.82	10.73	10.00	9.43	9.00	1.30	1.00	4.68	4.00	4.68	.....	33.00	6134

\*Deficient.

†Excluded from average.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
7546	Piedmont Farmers Favorite.....	W. H. Heckert Son, Bakerstown.....
6046	Piedmont Farmers Favorite.....	B. F. Horting, Newport.....
7483	Piedmont Farmers Favorite.....	H. M. Mohler, Carrolltown.....
5548	Piedmont Farmers Favorite.....	E. F. Peters, Wapwallopen.....
7419	Piedmont Farmers Favorite.....	R. M. Plyler, Summerville.....
6117	Piedmont Farmers Favorite.....	A. G. Smith, Mt. Union.....
6767	Piedmont Farmers Favorite.....	A. G. Smith, Mt. Union.....
6124	Piedmont High Grade Vegetable Grower.....	H. O. Andrews & Son, Mapleton Depot.....
6133	Piedmont High Grade Vegetable Grower.....	W. H. Heckert & Son, Bakerstown.....
7547	Piedmont High Grade Vegetable Grower.....	W. H. Heckert & Son, Bakerstown.....
6211	Piedmont High Grade Vegetable Grower.....	H. B. Low & Son, Orangeville.....
7443	Piedmont High Grade Vegetable Grower.....	H. B. Low & Son, Orangeville.....
6505	Piedmont High Grade Vegetable Grower.....	H. M. Mohler, Carrolltown.....
5549	Piedmont High Grade Vegetable Grower.....	E. F. Peters, Wapwallopen.....
6761	Piedmont High Grade Vegetable Grower.....	A. G. Smith, Mt. Union.....
5233	Piedmont Perfection Guano.....	Ditz & Mooney, Clarion.....
5620	Piedmont Perfection Guano.....	H. B. Low & Son, Orangeville.....
7442	Piedmont Perfection Guano.....	H. B. Low & Son, Orangeville.....
6112	Piedmont Perfection Guano.....	J. G. Simpson, Huntingdon.....
6763	Piedmont Perfection Guano.....	A. G. Smith, Mt. Union.....
6820	Piedmont Perfection Guano.....	Walker Brothers, Chambersburg.....
6509	Piedmont Unexcelled Guano.....	H. M. Mohler, Carrolltown.....
7484	Piedmont Unexcelled Guano.....	H. M. Mohler, Carrolltown.....
<b>PITTSBURGH PROVISION &amp; PACK- ING CO., PITTSBURGH, PA.</b>		
7095	Keystone Fertilizer.....	John C. Fugh, Sharpsburg.....
5537	Keystone Fertilizer.....	W. J. Gilson, Titusville.....
<b>RASIN MONUMENTAL CO., SUBSI- DIARY OF THE VIRGINIA-CAROLINA CHEMICAL CORPORATION, BALTI- MORE, MD.</b>		
5534	Rasin's Big Blaze Brand.....	J. L. Alcorn, Titusville.....
5512	Rasin's Double National Brand.....	W. W. Book, Port Royal.....
5513	Rasin's Double Royal Brand.....	W. W. Book, Port Royal.....
7205	Rasin's Double Royal Brand.....	W. W. Book, Port Royal.....
5886	Rasin's Double Royal Brand.....	E. H. Keen & Son, Parksburg.....
5611	Rasin's Double Royal Brand.....	H. B. Low & Son, Orangeville.....
7452	Rasin's Double Royal Brand.....	H. B. Low & Son, Orangeville.....
7289	Rasin's Double Royal Brand.....	George S. Poust, Hughesville.....
6355	Rasin's Double Royal Brand.....	W. F. Uplinger, Reynoldsville.....
7013	Rasin's Double Royal Brand.....	W. F. Uplinger, Reynoldsville.....
6357	Rasin's Eastern Shore Potato Special.....	W. F. Uplinger, Reynoldsville.....
6959	Rasin's High Grade Truck Compound.....	J. L. Alcorn, Titusville.....
5814	Rasin's High Grade Truck Compound.....	Bradford Co., Center Hall.....
5383	Rasin's High Grade Truck Compound.....	M. C. Deitz's Sons, Mechanicsburg.....
7288	Rasin's High Grade Truck Compound.....	George S. Poust, Hughesville.....
6178	Rasin's High Grade Truck Compound.....	J. S. Riley, New Castle.....
5365	Rasin's High Grade Truck Compound.....	Ritter's Mill, St. Marys.....
7206	Rasin's Hope Brand.....	W. W. Book, Port Royal.....
7292	Rasin's Hope Brand.....	George S. Poust, Hughesville.....
6356	Rasin's Hope Brand.....	W. F. Uplinger, Reynoldsville.....
5535	Rasin's National Crop Compound.....	J. L. Alcorn, Titusville.....
5509	Rasin's National Crop Compound.....	W. W. Book, Port Royal.....
7204	Rasin's National Crop Compound.....	W. W. Book, Port Royal.....
5536	Rasin's Royal Fish and Potash Mixture.....	J. L. Alcorn, Titusville.....
5511	Rasin's Royal Fish and Potash Mixture.....	W. W. Book, Port Royal.....
7197	Rasin's Royal Fish and Potash Mixture.....	Bradford Co., Center Hall.....
7388	Rasin's Royal Fish and Potash Mixture.....	Ben. H. Levan, Numidia.....
5612	Rasin's Royal Fish and Potash Mixture.....	H. B. Low & Son, Orangeville.....
5879	Rasin's Royal Fish and Potash Mixture.....	Oxford Grain & Hay Co., Oxford.....
6360	Rasin's Royal Fish and Potash Mixture.....	W. F. Uplinger, Reynoldsville.....
7015	Rasin's Royal Fish and Potash Mixture.....	W. F. Uplinger, Reynoldsville.....
5815	Rasin's Universal Crop Manure.....	Bradford Co., Center Hall.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
0.93	0.82	9.85	10.00	8.87	9.00	0.98	1.00	4.55	4.00	4.55	....	31.00	7546
1.11	0.82	9.82	10.00	8.94	9.00	0.88	1.00	4.15	4.00	4.15	....	25.70	6046
1.13	0.82	9.69	10.00	9.03	9.00	0.66	1.00	4.93	4.00	4.93	....	26.10	7483
1.10	0.82	10.00	10.00	*8.70	9.00	1.30	1.00	4.23	4.00	4.23	....	25.50	5548
0.96	0.82	9.99	10.00	9.89	9.00	0.10	1.00	4.40	4.00	4.40	....	34.50	7419
1.08	0.82	9.69	10.00	8.83	9.00	0.86	1.00	4.90	4.00	4.90	....	28.00	6117
0.93	0.82	9.44	10.00	*8.30	9.00	1.14	1.00	4.51	4.00	4.51	....	28.00	6767
1.76	1.65	8.34	9.00	*7.46	8.00	0.58	1.00	10.52	10.00	10.52	....	33.00	6124
1.66	1.65	8.58	9.00	7.86	8.00	0.72	1.00	10.81	10.00	10.81	....	40.00	6133
1.72	1.65	9.06	9.00	8.06	8.00	1.00	1.00	10.54	10.00	10.54	....	38.00	7547
1.77	1.65	8.93	9.00	8.03	8.00	0.90	1.00	10.05	10.00	10.05	....	30.50	6211
1.78	1.65	9.38	9.00	8.08	8.00	1.30	1.00	11.01	10.00	11.01	....	31.00	7443
1.85	1.65	8.85	9.00	*7.69	8.00	1.16	1.00	10.39	10.00	10.39	....	33.50	6505
1.87	1.65	9.18	9.00	8.22	8.00	0.96	1.00	10.09	10.00	10.09	....	29.50	5549
1.80	1.65	8.87	9.00	8.19	8.00	0.68	1.00	10.18	10.00	10.18	....	38.00	6761
1.75	1.65	8.44	9.00	*5.50	8.00	2.94	1.00	5.32	5.00	5.32	....	30.00	5233
1.77	1.65	9.11	9.00	8.13	8.00	0.98	1.00	5.51	5.00	4.51	....	27.50	5620
1.79	1.65	10.13	9.00	8.77	8.00	1.36	1.00	5.34	5.00	5.34	....	27.50	7442
1.88	1.65	9.20	9.00	8.10	8.00	1.10	1.00	5.97	5.00	5.97	....	31.00	6112
1.81	1.65	9.59	9.00	*7.67	8.00	1.92	1.00	5.38	5.00	5.38	....	31.00	6763
1.74	1.65	8.98	9.00	8.58	8.00	0.40	1.00	5.01	5.00	5.01	....	28.50	6820
3.24	3.29	8.97	9.00	7.93	8.00	1.04	1.00	4.28	4.00	4.28	....	33.80	6509
3.33	3.29	9.82	9.00	8.84	8.00	0.98	1.00	4.14	4.00	4.14	....	34.50	7484
1.71	1.65	10.29	11.00	9.21	9.00	1.08	2.00	3.50	3.00	3.50	....	35.00	7095
2.44	1.65	10.51	11.00	9.93	9.00	0.58	2.00	3.92	3.00	3.92	....	45.00	5537
2.90	2.47	11.91	11.00	10.97	10.00	0.94	1.00	*5.42	6.00	5.42	....	38.00	5534
1.79	1.65	17.07	17.00	16.43	16.00	0.64	1.00	*7.13	8.00	7.13	....	38.50	5512
3.50	3.29	17.37	17.00	16.29	16.00	1.08	1.00	6.36	6.00	6.36	....	42.90	5513
3.25	3.29	17.12	17.00	16.22	16.00	0.90	1.00	6.27	6.00	6.27	....	43.20	7205
3.38	3.29	17.50	17.00	16.10	16.00	1.40	1.00	6.22	6.00	6.22	....	40.50	5886
3.36	3.29	17.50	17.00	16.08	16.00	1.42	1.00	6.43	6.00	6.43	....	44.50	5611
3.29	3.29	17.13	17.00	15.87	16.00	1.26	1.00	6.21	6.00	6.21	....	44.50	7452
3.33	3.29	17.60	17.00	16.18	16.00	1.42	1.00	6.45	6.00	5.70	0.75	39.40	7289
3.34	3.29	15.62	17.00	*14.06	16.00	1.56	1.00	6.16	6.00	6.16	....	44.25	6355
*3.04	3.29	16.84	17.00	*15.78	16.00	1.06	1.00	6.01	6.00	6.01	....	44.25	7013
*5.09	5.76	9.17	7.00	8.23	6.00	0.94	1.00	5.04	5.00	5.04	....	44.55	6357
*3.01	3.29	9.03	9.00	*7.74	8.00	1.29	1.00	6.98	7.00	6.98	....	40.50	6959
3.64	3.29	9.21	9.00	8.09	8.00	1.12	1.00	7.19	7.00	7.19	....	36.30	5814
3.33	3.29	9.21	9.00	8.27	8.00	0.94	1.00	7.64	7.00	7.64	....	....	5383
3.34	3.29	9.95	9.00	8.89	8.00	1.06	1.00	7.37	7.00	7.37	....	32.35	7288
3.69	3.29	9.62	9.00	8.68	8.00	0.94	1.00	7.73	7.00	7.73	....	37.00	6178
3.49	3.29	9.11	9.00	8.07	8.00	1.04	1.00	7.55	7.00	7.55	....	37.75	5365
1.67	1.65	13.53	13.00	11.97	12.00	1.56	1.00	4.30	4.00	4.30	....	31.00	7206
1.72	1.65	14.04	13.00	12.92	12.00	1.12	1.00	4.22	4.00	4.22	....	26.45	7292
1.95	1.65	14.16	13.00	12.22	12.00	1.94	1.00	4.37	4.00	4.37	....	33.50	6356
0.97	0.82	11.20	10.00	9.68	9.00	1.52	1.00	4.57	4.00	4.57	....	29.50	5535
1.07	0.82	10.84	10.00	9.52	9.00	1.32	1.00	4.54	4.00	4.54	....	26.60	5509
1.13	0.82	10.66	10.00	9.12	9.00	1.54	1.00	4.09	4.00	4.09	....	25.60	7204
1.79	1.65	11.94	10.00	9.90	9.00	2.04	1.00	3.28	3.00	3.28	....	31.50	5536
1.80	1.65	11.35	10.00	9.03	9.00	2.32	1.00	3.34	3.00	3.34	....	28.80	5511
1.85	1.65	12.03	10.00	9.25	9.00	2.78	1.00	3.55	3.00	1.60	1.95	26.80	7197
1.83	1.65	12.12	10.00	9.78	9.00	2.34	1.00	3.39	3.00	1.60	1.79	28.95	7388
1.80	1.65	11.53	10.00	9.43	9.00	2.10	1.00	3.54	3.00	3.54	....	29.50	5612
1.87	1.65	11.38	10.00	9.28	9.00	2.10	1.00	3.37	3.00	3.37	....	29.00	5879
1.94	1.65	10.97	10.00	9.15	9.00	1.82	1.00	3.14	3.00	3.14	....	30.75	6360
1.93	1.65	12.39	10.00	9.49	9.00	2.90	1.00	3.38	3.00	1.40	1.98	30.75	7015
2.03	1.65	9.46	9.00	8.16	8.00	1.30	1.00	5.45	5.00	5.45	....	28.70	5815

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5384	Rasin's Universal Crop Manure.....	M. C. Deitz's Sons, Mechanicsburg.....
7016	Rasin's Universal Crop Manure.....	W. F. Uplinger, Reynoldsville.....
7387	Rasin's Vegetable Special.....	Ben. H. Levan, Numidia.....
6179	Rasin's Vegetable Special.....	J. S. Riley, New Castle.....
6358	Rasin's Vegetable Special.....	W. F. Uplinger, Reynoldsville.....
READING BONE FERTILIZER CO., READING, PA.		
6754	Blood Meat and Potash Mixture.....	Claybaugh Mills, Everett.....
6760	Reading 1-8-5.....	C. A. Claybaugh, Everett.....
6279	Reading 1-8-5.....	Roy W. Layton, Worfordsburg.....
6640	Reading 2-8-16.....	Campbell Feed Co., Oakdale.....
5287	Reading 2-8-16.....	C. A. Claybaugh, Everett.....
6759	Reading 2-8-16.....	C. A. Claybaugh, Everett.....
6464	Reading 2-8-10.....	G. L. Rice, Dallas.....
7344	Reading 2-12-5.....	Eugene Christman, Lehighton.....
7056	Reading 2-12-5.....	C. T. Price, Newton Hamilton.....
7345	Reading 3-8-5.....	Eugene Christman, Lehighton.....
7343	Reading 4-8-6.....	Eugene Christman, Lehighton.....
5288	Reading 4-8-6.....	C. A. Claybaugh, Everett.....
6465	Reading 4-8-6.....	G. L. Rice, Dallas.....
7346	Reading 4-12-5.....	Eugene Christman, Lehighton.....
6562	Reading All Crop Special.....	S. C. Kreible, West Point.....
5103	Reading All Crop Special.....	Roy W. Layton, Worfordsburg.....
ROBERT A. REICHARD, INC., ALLENTOWN, PA.		
6614	Reichard's Animal Base 2-8-5.....	Emery Reifenberg, St. Johns.....
5423	Reichard's Animal Base 2-8-5.....	Dennis Strohl, Lehighton.....
7347	Reichard's Animal Base 2-8-5.....	Edward Werley, Jordan.....
5439	Reichard's Animal Base 2-8-10.....	L. E. Buck, Lehighton.....
6599	Reichard's Animal Base 2-16-8.....	Robert A. Reichard, Inc., Allentown.....
5425	Reichard's Animal Base 2-16-8.....	Dennis Strohl, Lehighton.....
5426	Reichard's Animal Base 3-10-6.....	Dennis Strohl, Lehighton.....
6598	Reichard's Animal Base 4-8-8.....	Robert A. Reichard, Inc., Allentown.....
5422	Reichard's Animal Base 4-8-8.....	Dennis Strohl, Lehighton.....
F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.		
7440	Royster's 2-16-8 Fertilizer.....	O. O. Ortwine, Millville.....
5839	Royster's 4-16-4 Fertilizer.....	Loucks Hardware Co., Scottdale.....
6920	Royster's 4-16-4 Fertilizer.....	Parnassus Hardware Co., Parnassus.....
6732	Royster's 4-16-4 Fertilizer.....	Bert. E. Whittaker, Bowmantown.....
5529	Royster's Banner Guano 2-8-10.....	Bovard Hardware Co., Atlantic.....
7262	Royster's Banner Guano 2-8-10.....	Carmichaels Milling Co., Carmichaels.....
7250	Royster's Banner Guano 2-8-10.....	Elwood R. Chambers, Elkview.....
5562	Royster's Banner Guano 2-8-10.....	J. A. Gardner, Moscow.....
5268	Royster's Banner Guano 2-8-10.....	H. A. Mendenhall, Toughkenamon.....
7416	Royster's Banner Guano 2-8-10.....	E. J. Neeley, Knox.....
5976	Royster's Banner Guano 2-8-10.....	Parnassus Hardware Co., Parnassus.....
6988	Royster's Banner Guano 2-8-10.....	W. A. Reed Estate, Paxinos.....
6730	Royster's Banner Guano 2-8-10.....	Bert E. Whittaker, Bowmantown.....
5530	Royster's Bully Guano 2-8-5.....	Bovard Hardware Co., Atlantic.....
7249	Royster's Bully Guano 2-8-5.....	Elwood R. Chambers, Elkview.....
6061	Royster's Bully Guano 2-8-5.....	M. P. Close, Tioga.....
6322	Royster's Bully Guano 2-8-5.....	Ord. J. Dohl, Harveyville.....
7036	Royster's Bully Guano 2-8-5.....	Wm. H. Dreibilbis, Shoemakersville.....
5838	Royster's Bully Guano 2-8-5.....	Loucks Hardware Co., Scottdale.....
6257	Royster's Bully Guano 2-8-5.....	R. C. McGee, Roaring Springs.....
7415	Royster's Bully Guano 2-8-5.....	E. J. Neeley, Knox.....
6635	Royster's Bully Guano 2-8-5.....	Option Feed Co., Option.....
7438	Royster's Bully Guano 2-8-5.....	O. O. Ortwine, Millville.....
6921	Royster's Bully Guano 2-8-5.....	Parnassus Hardware Co., Parnassus.....
5898	Royster's Bully Guano 2-8-5.....	F. H. Shenberger, Red Lion.....
6373	Royster's Bully Guano 2-8-5.....	R. D. Simpkins, Corsica.....

## FERTILIZERS—Continued.

NITROGEN		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.95	1.65	9.46	9.00	8.12	8.00	1.34	1.00	5.47	5.00	5.47	....	31.00	5384
1.76	1.65	9.96	9.00	8.80	8.00	1.16	1.00	5.21	5.00	5.21	....	31.00	7016
1.96	1.65	9.63	9.00	8.17	8.00	1.46	1.00	*9.54	10.00	9.54	....	34.00	7387
1.72	1.65	9.89	9.00	8.49	8.00	1.40	1.00	10.13	10.00	10.13	....	34.00	6179
1.87	1.65	9.91	9.00	8.55	8.00	1.36	1.00	10.02	10.00	10.02	....	36.00	6358
1.47	1.64	10.13	9.00	9.09	8.00	1.04	1.00	3.88	4.00	3.88	....	30.00	6754
1.00	0.82	9.18	9.00	8.18	8.00	1.00	1.00	4.89	5.00	4.89	....	28.00	6760
0.86	0.82	9.01	9.00	8.57	8.00	0.44	1.00	5.08	5.00	5.08	....	....	5279
1.92	1.64	9.01	9.00	8.63	8.00	0.38	1.00	*9.73	10.00	9.73	....	39.00	6640
1.86	1.64	8.04	9.00	*7.74	8.00	0.30	1.00	9.85	10.00	9.85	....	37.00	5287
1.73	1.64	9.69	9.00	8.87	8.00	0.82	1.00	*9.50	10.00	9.50	....	37.00	6759
1.65	1.64	9.95	9.00	9.33	8.00	0.62	1.00	*9.20	10.00	9.20	....	30.00	6464
1.64	1.64	13.44	13.00	12.14	12.00	1.30	1.00	4.83	5.00	4.83	....	31.65	7344
1.70	1.64	13.78	13.00	12.62	12.00	1.16	1.00	5.04	5.00	5.04	....	....	7056
*2.12	2.46	10.61	9.00	9.85	8.00	0.76	1.00	*4.63	5.00	4.63	....	31.35	7345
*2.91	3.29	10.15	9.00	9.57	8.00	0.58	1.00	6.33	6.00	6.33	....	35.80	7343
*3.04	3.29	8.94	9.00	8.16	8.00	0.78	1.00	6.08	6.00	6.08	....	40.00	5288
3.16	3.29	9.27	9.00	8.73	8.00	0.54	1.00	6.41	6.00	6.41	....	32.20	6465
3.30	3.29	13.90	13.00	12.82	12.00	1.08	1.00	4.98	5.00	4.98	....	38.70	7346
1.65	1.64	10.87	11.00	10.37	10.00	0.50	1.00	6.71	6.00	6.71	....	32.00	6562
1.85	1.64	10.92	11.00	10.22	10.00	0.70	1.00	6.05	6.00	6.05	....	....	5103
1.86	1.64	8.94	9.00	8.38	8.00	0.56	1.00	5.06	5.00	5.06	....	32.00	6614
1.78	1.64	9.57	9.00	8.79	8.00	0.78	1.00	5.51	5.00	5.51	....	....	5423
1.66	1.64	8.99	9.00	*7.73	8.00	1.26	1.00	5.34	5.00	5.34	....	26.50	7347
1.83	1.64	8.73	9.00	8.13	8.00	0.60	1.00	10.11	10.00	10.11	....	33.65	5439
1.70	1.64	17.86	17.00	16.96	16.00	0.90	1.00	8.45	8.00	8.45	....	33.00	6599
1.70	1.64	17.13	17.00	16.21	16.00	0.92	1.00	8.45	8.00	8.45	....	....	5425
2.35	2.46	10.43	11.00	9.91	10.00	0.52	1.00	6.70	6.00	6.70	....	....	5426
3.51	3.28	8.70	9.00	8.06	8.00	0.64	1.00	8.28	8.00	8.28	....	33.00	6598
3.41	3.28	8.67	9.00	8.03	8.00	0.64	1.00	8.53	8.00	8.53	....	....	5422
1.80	1.65	17.12	16.50	16.28	16.00	0.84	0.50	8.58	8.00	7.60	0.98	42.57	7440
3.58	3.29	17.54	16.50	16.58	16.00	0.96	0.50	4.43	4.00	4.43	....	48.00	5839
3.13	3.29	17.09	16.50	16.09	16.00	1.00	0.50	3.93	4.00	3.93	....	45.25	6920
3.24	3.29	17.25	16.50	16.01	16.00	1.24	0.50	4.00	4.00	4.00	....	....	6732
1.78	1.65	9.06	8.50	8.14	8.00	0.92	0.50	9.93	10.00	9.93	....	34.58	5529
1.77	1.65	9.06	8.50	8.64	8.00	0.42	0.50	10.39	10.00	10.39	....	38.00	7262
1.74	1.65	8.80	8.50	8.24	8.00	0.56	0.50	10.35	10.00	10.35	....	34.00	7250
1.81	1.65	8.99	8.50	8.23	8.00	0.76	0.50	10.23	10.00	10.23	....	34.25	5562
1.88	1.65	8.73	8.50	8.17	8.00	0.56	0.50	10.51	10.00	10.51	....	34.00	5268
1.71	1.65	9.34	8.50	8.96	8.00	0.38	0.50	10.47	10.00	10.47	....	36.00	7416
1.83	1.65	9.34	8.50	8.52	8.00	0.82	0.50	9.89	10.00	9.89	....	37.00	5976
1.73	1.65	8.95	8.50	8.45	8.00	0.50	0.50	10.02	10.00	10.02	....	35.00	6988
1.72	1.65	9.21	8.50	8.73	8.00	0.48	0.50	10.09	10.00	10.09	....	....	6730
1.75	1.65	9.31	8.50	8.57	8.00	0.74	0.50	5.01	5.00	5.01	....	29.50	5530
1.77	1.65	8.88	8.50	8.24	8.00	0.64	0.50	5.52	5.00	5.52	....	29.50	7249
1.80	1.65	9.57	8.50	8.81	8.00	0.76	0.50	5.18	5.00	5.18	....	33.00	6061
1.87	1.65	9.08	8.50	7.96	8.00	1.12	0.50	5.01	5.00	5.01	....	28.50	6322
1.86	1.65	9.43	8.50	8.29	8.00	1.14	0.50	5.00	5.00	5.00	....	....	7036
1.83	1.65	9.12	8.50	8.30	8.00	0.82	0.50	5.43	5.00	5.43	....	35.00	5838
1.87	1.65	9.12	8.50	8.14	8.00	0.98	0.50	5.23	5.00	5.23	....	31.70	6257
1.66	1.65	9.15	8.50	8.37	8.00	0.78	0.50	5.14	5.00	5.14	....	31.20	7415
1.93	1.65	9.13	8.50	8.25	8.00	0.88	0.50	5.00	5.00	5.00	....	30.85	6635
1.88	1.65	9.31	8.50	8.51	8.00	0.80	0.50	5.26	5.00	5.26	....	30.63	7438
1.69	1.65	9.66	8.50	9.06	8.00	0.60	0.50	5.64	5.00	5.64	....	32.50	6921
1.75	1.65	9.58	8.50	8.58	8.00	1.00	0.50	5.16	5.00	5.16	....	28.00	5898
1.95	1.65	9.52	8.50	8.66	8.00	0.86	0.50	5.12	5.00	5.12	....	29.85	6373

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6425	Royster's Comet Guano 3-10-6	Chaapels Seed Store, Williamsport
5561	Royster's Comet Guano 3-10-6	J. A. Gardner, Moscow
6184	Royster's Comet Guano 3-10-6	Greenville Coal & Ice Co., Greenville
6884	Royster's Comet Guano 3-10-6	Milton O. Lauver, Mt. Pleasant Mills
7277	Royster's Fish, Flesh and Fowl 2-9-3	C. L. Ayers, Cannonsburg
7035	Royster's Fish, Flesh and Fowl 2-9-3	Wm. H. Dreiblbis, Shoemakersville
5991	Royster's Fish, Flesh and Fowl 2-9-3	Evan H. McBroom, Derry
6684	Royster's Fish, Flesh and Fowl 2-9-3	McDonald Milling Co., McDonald
7510	Royster's Fish, Flesh and Fowl 2-9-3	R. C. McGee, Roaring Springs
6331	Royster's Fish, Flesh and Fowl 2-9-3	Max Parke, Lake Ariel
6927	Royster's Fish, Flesh and Fowl 2-9-3	Frank G. Reamer Co., Greensburg
5664	Royster's Fish, Flesh and Fowl 2-9-3	W. A. Reed Estate, Paxinos
6985	Royster's Fish, Flesh and Fowl 2-9-3	W. A. Reed Estate, Paxinos
7557	Royster's Fish, Flesh and Fowl 2-9-3	E. J. Wahl, Rochester
7463	Royster's Gem Guano 2-12-4	Marvin F. Cope, Berwick
5418	Royster's Gem Guano 2-12-4	W. H. Dreiblbis, Shoemakersville
6883	Royster's Gem Guano 2-12-4	Milton O. Lauver, Mt. Pleasant Mills
5897	Royster's Gem Guano 2-12-4	F. H. Shenberger, Red Lion
5787	Royster's Gem Guano 2-12-4	Darius Waite, Bellefonte
6731	Royster's Gem Guano 2-12-4	Bert. E. Whittaker, Bowmantown
6426	Royster's Quality Trucker 4-8-7	Chaapels Seed Store, Williamsport
5271	Royster's Quality Trucker 4-8-7	H. A. Mendenhall, Toughkenamon
5975	Royster's Quality Trucker 4-8-7	Parnassus Hardware Co., Parnassus
6460	Royster's Quality Trucker 4-8-7	W. A. Russell, Carbondale
5899	Royster's Quality Trucker 4-8-7	F. H. Shenberger, Red Lion
6729	Royster's Quality Trucker 4-8-7	Bert. E. Whittaker, Bowmantown
5471	Royster's Rational Guano 1-9-4	A. B. Beach, New Enterprise
6961	Royster's Rational Guano 1-9-4	Franklin Feed & Supply Co., Franklin
6769	Royster's Rational Guano 1-9-4	Glossner Brothers, Lock Haven
7509	Royster's Rational Guano 1-9-4	R. C. McGee, Roaring Springs
6641	Royster's Rational Guano 1-9-4	Oakdale Feed Mill, Oakdale
6332	Royster's Rational Guano 1-9-4	Max Parke, Lake Ariel
6926	Royster's Rational Guano 1-9-4	Frank G. Reamer Co., Greensburg
6372	Royster's Rational Guano 1-9-4	R. D. Simpkins, Corsica
7558	Royster's Rational Guano 1-9-4	E. J. Wahl, Rochester
7185	Royster's Rational Guano 1-9-4	Darius Waite, Bellefonte
6090	Royster's Rational Guano 1-9-4	Youngsville Milling Co., Youngsville
6922	Royster's Trojan Guano 4-12-4	Parnassus Hardware Co., Parnassus
5474	Royster's Truckers Delight 4-8-4	A. B. Beach, New Enterprise
5719	Royster's Truckers Delight 4-8-4	Carmichaels Milling Co., Carmichaels
7268	Royster's Truckers Delight 4-8-4	J. F. Patterson, Waynesburg
5564	Royster's Truckers Delight 4-8-4	Summit Farm Equipment Co., Clarks Summit
6255	Royster's Verbena Guano 5-8-5	R. C. McGee, Roaring Springs
6457	Royster's Verbena Guano 5-8-5	W. A. Russell, Carbondale
5559	Royster's Vim Guano 2-12-2	J. A. Gardner, Moscow
5399	Royster's Vim Guano 2-12-2	D. E. Goodenough, Coudersport
6987	Royster's Vim Guano 2-12-2	W. A. Reed Estate, Paxinos
7514	Royster's Vim Guano 2-12-2	Westminster Supply Co., Erie
E. W. RUPERT, OXFORD, PA.		
5872	Complete Potato Manure	E. W. Rupert, Oxford
5874	Royal Plant Food	E. W. Rupert, Oxford
7242	Royal Plant Food	E. W. Rupert, Oxford
5873	Sure Crop	E. W. Rupert, Oxford
7241	Sure Crop	E. W. Rupert, Oxford
SHARON RENDERING & FERTILIZER WORKS, SHARON, PA.		
7572	3-10-7 Phosphate	John W. Cox, New Castle

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
2.69	2.47	10.97	10.50	10.33	10.00	0.64	0.50	6.37	6.00	6.37	....	40.00	6425
2.58	2.47	10.80	10.50	*9.76	10.00	1.04	0.50	6.78	6.00	6.78	....	35.00	5561
2.68	2.47	11.07	10.50	10.23	10.00	0.84	0.50	5.97	6.00	5.97	....	38.00	6184
2.54	2.47	11.38	10.50	10.64	10.00	0.74	0.50	*5.48	6.00	5.48	....	32.75	6884
1.72	1.65	10.15	9.50	8.95	9.00	1.20	0.50	3.36	3.00	3.36	....	32.00	7277
1.78	1.65	10.74	9.50	9.52	9.00	1.22	0.50	3.28	3.00	3.28	....	29.00	7035
1.94	1.65	10.93	9.50	9.89	9.00	1.04	0.50	3.33	3.00	3.33	....	32.00	5991
1.78	1.65	10.84	9.50	9.96	9.00	0.88	0.50	3.38	3.00	3.38	....	33.00	6684
1.83	1.65	10.13	9.50	9.31	9.00	0.82	0.50	3.07	3.00	3.07	....	30.40	7510
1.86	1.65	10.26	9.50	9.68	9.00	0.58	0.50	3.13	3.00	3.13	....	31.00	6331
1.71	1.65	10.42	9.50	9.34	9.00	1.08	0.50	3.41	3.00	3.41	....	34.00	6927
1.72	1.65	10.97	9.50	9.83	9.00	1.14	0.50	3.07	3.00	3.07	....	30.00	5664
1.65	1.65	10.15	9.50	8.85	9.00	1.30	0.50	3.19	3.00	3.19	....	28.50	6985
1.78	1.65	10.36	9.50	9.14	9.00	1.22	0.50	3.42	3.00	3.42	....	32.00	7557
1.76	1.65	13.62	12.50	12.40	12.00	1.22	0.50	4.07	4.00	4.07	....	30.50	7463
1.75	1.65	13.66	12.50	12.80	12.00	0.86	0.50	4.08	4.00	4.08	....	28.00	5418
1.86	1.65	13.01	12.50	11.85	12.00	1.16	0.50	4.25	4.00	4.25	....	30.00	6883
1.82	1.65	13.57	12.50	12.85	12.00	0.72	0.50	4.22	4.00	4.22	....	29.75	5897
1.65	1.65	13.56	12.50	12.62	12.00	0.94	0.50	4.46	4.00	4.46	....	....	5787
1.75	1.65	12.77	12.50	12.03	12.00	0.74	0.50	4.17	4.00	4.17	....	....	6731
3.33	3.29	8.70	8.50	8.28	8.00	0.42	0.50	7.43	7.00	7.43	....	50.00	6426
3.33	3.29	8.74	8.50	8.08	8.00	0.66	0.50	7.22	7.00	7.22	....	37.00	5271
3.39	3.29	8.67	8.50	8.13	8.00	0.54	0.50	7.11	7.00	7.11	....	40.00	5975
3.30	3.29	9.11	8.50	8.31	8.00	0.80	0.50	7.10	7.00	7.10	....	42.00	6460
3.41	3.29	9.01	8.50	8.15	8.00	0.86	0.50	7.84	7.00	7.84	....	35.25	5899
3.22	3.29	9.20	8.50	8.58	8.00	0.62	0.50	*6.45	7.00	6.45	....	....	6729
0.97	0.82	10.61	9.50	9.57	9.00	1.04	0.50	4.36	4.00	4.36	....	30.40	5471
0.95	0.82	10.37	9.50	9.37	9.00	1.00	0.50	4.50	4.00	4.50	....	30.00	6961
1.08	0.82	9.99	9.50	8.91	9.00	1.08	0.50	4.30	4.00	4.30	....	....	6769
0.96	0.82	10.51	9.50	9.63	9.00	0.88	0.50	4.38	4.00	4.38	....	28.40	7509
1.10	0.82	10.65	9.50	9.77	9.00	0.88	0.50	4.35	4.00	4.35	....	30.00	6641
1.06	0.82	10.26	9.50	9.46	9.00	0.80	0.50	4.20	4.00	4.20	....	29.50	6332
1.09	0.82	10.55	9.50	9.59	9.00	0.96	0.50	4.19	4.00	4.19	....	29.50	6926
1.02	0.82	11.17	9.50	9.73	9.00	1.44	0.50	4.13	4.00	4.13	....	26.70	6372
1.31	0.82	10.33	9.50	9.49	9.00	0.84	0.50	4.28	4.00	4.28	....	30.00	7558
0.96	0.82	10.22	9.50	9.36	9.00	0.86	0.50	4.59	4.00	4.59	....	27.00	7185
0.93	0.82	10.87	9.50	9.67	9.00	1.20	0.50	4.08	4.00	4.08	....	30.20	6090
3.29	3.29	13.13	12.50	12.09	12.00	1.04	0.50	3.91	4.00	3.91	....	41.00	6922
3.43	3.29	9.18	8.50	8.50	8.00	0.68	0.50	*3.65	4.00	3.65	....	....	5474
3.27	3.29	9.25	8.50	8.53	8.00	0.72	0.50	4.41	4.00	4.41	....	40.00	5719
3.31	3.29	9.71	8.50	9.41	8.00	0.30	0.50	4.34	4.00	4.34	....	25.00	7268
3.29	3.29	9.02	8.50	8.20	8.00	0.82	0.50	4.24	4.00	4.24	....	36.30	5564
4.14	4.11	8.95	8.50	8.11	8.00	0.84	0.50	5.53	5.00	5.53	....	40.45	6255
4.01	4.11	9.01	8.50	8.11	8.00	0.90	0.50	5.46	5.00	5.46	....	40.00	6457
1.83	1.65	13.19	12.50	12.01	12.00	1.18	0.50	2.09	2.00	2.09	....	30.00	5559
1.76	1.65	13.05	12.50	12.09	12.00	0.96	0.50	2.39	2.00	2.39	....	33.00	5399
1.65	1.65	13.07	12.50	12.11	12.00	0.96	0.50	2.13	2.00	2.13	....	32.00	6987
1.85	1.65	13.46	12.50	12.42	12.00	1.04	0.50	2.39	2.00	2.39	....	34.00	7514
2.51	2.47	8.85	9.00	8.19	8.00	0.66	1.00	10.02	10.00	10.02	....	40.00	5872
1.78	1.65	13.45	11.00	*8.99	10.00	4.46	1.00	5.22	5.00	5.22	....	38.00	5874
1.67	1.65	13.66	11.00	10.04	10.00	3.62	1.00	5.92	5.00	5.92	....	38.00	7242
1.76	1.65	9.22	9.00	8.52	8.00	0.70	1.00	4.92	5.00	4.92	....	30.00	5873
1.65	1.65	9.18	9.00	8.72	8.00	0.46	1.00	5.19	5.00	5.19	....	30.00	7241
2.67	2.47	12.44	10.25	12.10	10.00	0.34	0.25	8.29	7.00	8.29	....	38.00	7572

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>M. L. SHOEMAKER &amp; CO., INC., PHILADELPHIA, PA.</b>	
6552	Shoemaker's Swift-Sure 2-8-10 Superphosphate.....	Wm. Taggart, Norristown.....
7102	Shoemaker's Swift-Sure Potato Special 2-8-10.....	M. L. Shoemaker & Co., Inc., Philadelphia.....
7101	Shoemaker's Swift-Sure Superphosphate General Grower 2-8-5.....	M. L. Shoemaker & Co., Inc., Philadelphia.....
	<b>SHUR-GRO FERTILIZING CORPORATION, SHARPESBURG, PA.</b>	
7098	Shur-Gro.....	George B. Beach Feed Store, Turtle Creek.....
	<b>THE SMITH AGRICULTURAL CHEMICAL CO., COLUMBUS, OHIO</b>	
6423	Smith's Sacco Plant Food.....	Chaaapels Seed Store, Williamsport.....
7116	Smith's Sacco Plant Food.....	Henry F. Michell Co., Philadelphia.....
5442	Smith's Sacco Plant Food.....	Weeks Hardware Co., Scranton.....
	<b>STANDARD CHEMICAL WORKS, INC., READING, PA.</b>	
6339	Standard 5-10-5.....	Murray Co., Honesdale.....
6989	Standard All Crops.....	J. C. Benfield, Milton.....
7323	Standard All Crops.....	John Smith, Palmerton.....
5848	Standard All Crops.....	Starr Milling Co., Clymer.....
6991	Standard Cheapest In the End.....	J. C. Benfield, Milton.....
6605	Standard Cheapest In the End.....	Gibbs Milling Co., Nanticoke.....
6931	Standard Cheapest In the End.....	S. T. Kanarr, Indiana.....
6533	Standard Cheapest In the End.....	Ben Levan, Catawissa.....
5849	Standard Cheapest In the End.....	Starr Milling Co., Clymer.....
6501	Standard Cheapest In the End.....	Wm. Westrick, Patton.....
7081	Standard Fish Guano.....	Allegheny County Agricultural Cooperative Association, Allison Park.....
6990	Standard Fish Guano.....	J. C. Benfield, Milton.....
5359	Standard Fish Guano.....	E. J. Grotzinger, St. Marys.....
6757	Standard Fish Guano.....	George Rohm, Breezewood.....
5847	Standard Fish Guano.....	Starr Milling Co., Clymer.....
6495	Standard Fish Guano.....	Wm. Westrick, Patton.....
6493	Standard General Crop.....	Wm. Westric, Patton.....
6531	Standard Old Standard.....	Ben Levan, Catawissa.....
6030	Standard Old Standard.....	Murray Co., Honesdale.....
7480	Standard Peerless Mixture.....	H. C. Beerits Sons, Somerset.....
6604	Standard Peerless Mixture.....	Gibbs Milling Co., Nanticoke.....
5589	Standard Peerless Mixture.....	Mahoning Hardware, Punksutawney.....
6734	Standard Peerless Mixture.....	Northampton Cooperative Farmers, Inc., Nazareth.....
6245	Standard Peerless Mixture.....	Elvin Shriver, Martinsburg.....
6502	Standard Peerless Mixture.....	Wm. Westrick, Patton.....
6337	Standard Potato and Truck Special.....	Murray Co., Honesdale.....
5846	Standard Potato and Truck Special.....	Starr Milling Co., Clymer.....
6494	Standard Potato and Truck Special.....	Wm. Westrick, Patton.....
7479	Standard Tankage and Potash Mixture.....	H. C. Beerits Sons, Somerset.....
6069	Standard Tankage and Potash Mixture.....	Frey Brothers, Muncy.....
5586	Standard Tankage and Potash Mixture.....	Mahoning Hardware, Punksutawney.....
6029	Standard Tankage and Potash Mixture.....	Murray Co., Honesdale.....
6758	Standard Tankage and Potash Mixture.....	George Rohm, Breezewood.....
5360	Standard Tip Top.....	E. J. Grotzinger, St. Marys.....
5854	Standard Tip Top.....	S. T. Kanarr, Indiana.....
6932	Standard Tip Top.....	S. T. Kanarr, Indiana.....
6485	Standard Truckers Success.....	Somerset Milling Co., Somerset.....
	<b>SUMMERS FERTILIZER COMPANY, INC., BALTIMORE, MD.</b>	
7308	Summer's Best on Earth 1-9-4 Fertilizer.....	Freys Hardware Co., Muncy.....
7329	Summer's Best on Earth 1-9-4 Fertilizer.....	J. W. Rentschler, Hamburg.....
6727	Summer's Best on Earth 2-8-5 Fertilizer.....	F. M. Berkenbine, Bernville.....
6108	Summer's Best on Earth 2-8-5 Fertilizer.....	L. A. Carlson, Warren.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.81	1.64	8.55	9.00	7.97	8.00	0.58	1.00	11.24	10.00	11.24	....	38.00	6352
1.82	1.64	8.48	9.00	8.06	8.00	0.42	1.00	11.05	10.00	11.05	....	28.95	7102
1.83	1.65	8.79	9.00	8.05	8.00	0.74	1.00	5.75	5.00	5.75	....	24.05	7101
*2.04	3.00	8.83	8.50	8.15	8.00	0.68	0.50	14.74	12.00	14.74	....	70.00	7098
3.33	3.29	13.04	12.50	12.26	12.00	0.78	0.50	4.23	4.00	3.00	1.23	75.00	6423
3.54	3.29	12.86	12.50	12.46	12.00	0.40	0.50	4.09	4.00	4.09	....	90.00	7116
3.53	3.29	13.27	12.50	12.09	12.00	1.18	0.50	4.88	4.00	2.90	1.98	†....	5442
*3.85	4.10	11.48	11.00	10.30	10.00	1.18	1.00	4.98	5.00	4.98	....	40.00	6339
1.82	1.64	13.16	13.00	12.10	12.00	1.06	1.00	2.17	2.00	2.17	....	28.00	6989
1.82	1.64	13.52	13.00	12.60	12.00	0.92	1.00	2.45	2.00	2.45	....	28.50	7323
1.68	1.64	13.30	13.00	12.36	12.00	0.94	1.00	2.48	2.00	2.48	....	31.05	5848
*2.97	3.28	9.31	9.00	8.49	8.00	0.82	1.00	*5.66	6.00	5.66	....	35.00	6991
3.17	3.28	8.93	9.00	8.05	8.00	0.88	1.00	*5.72	6.00	5.72	....	39.50	6605
3.29	3.28	9.20	9.00	8.36	8.00	0.84	1.00	6.24	6.00	6.24	....	33.50	6931
3.31	3.28	9.50	9.00	8.60	8.00	0.90	1.00	6.31	6.00	6.31	....	36.50	6533
3.28	3.28	9.12	9.00	8.12	8.00	1.00	1.00	6.26	6.00	6.26	....	37.70	5849
3.28	3.28	9.54	9.00	8.48	8.00	1.06	1.00	6.12	6.00	6.12	....	34.20	6501
1.67	1.64	13.14	13.00	12.06	12.00	1.68	1.00	4.65	4.00	4.65	....	30.00	7081
1.75	1.64	12.76	13.00	*11.64	12.00	1.12	1.00	5.10	4.00	5.10	....	30.00	6990
1.65	1.64	13.16	13.00	12.04	12.00	1.12	1.00	4.25	4.00	4.25	....	31.30	5359
1.60	1.64	13.52	13.00	12.66	12.00	0.86	1.00	*3.57	4.00	3.57	....	32.90	5847
1.71	1.64	12.65	13.00	11.81	12.00	0.84	1.00	4.04	4.00	4.04	....	29.00	6495
1.66	1.64	14.03	13.00	12.53	12.00	1.50	1.00	*3.64	4.00	3.64	....	29.50	6493
2.50	2.46	9.53	9.00	8.43	8.00	1.10	1.00	4.24	4.00	4.24	....	26.75	6531
2.06	1.64	10.43	10.00	9.53	9.00	0.90	1.00	3.75	3.00	3.75	....	25.75	6030
1.73	1.64	9.76	10.00	8.96	9.00	0.80	1.00	3.37	3.00	3.37	....	30.00	7480
1.80	1.64	9.64	9.00	8.40	8.00	1.24	1.00	5.65	5.00	5.65	....	33.00	6604
1.72	1.64	9.71	9.00	9.07	8.00	0.64	1.00	5.24	5.00	5.24	....	36.00	5589
1.58	1.64	9.81	9.00	8.57	8.00	1.24	1.00	*4.74	5.00	4.74	....	6734	
1.76	1.64	9.73	9.00	8.77	8.00	0.96	1.00	*4.74	5.00	4.74	....	26.50	6245
1.65	1.64	9.06	9.00	7.86	8.00	1.20	1.00	5.20	5.00	5.20	....	6502	
1.49	1.64	9.06	9.00	7.98	8.00	1.08	1.00	5.12	5.00	5.12	....	35.00	6337
1.65	1.64	10.36	9.00	9.12	8.00	1.24	1.00	*9.70	10.00	9.70	....	35.50	5846
*1.40	1.64	9.58	9.00	8.82	8.00	0.76	1.00	*9.59	10.00	9.59	....	32.00	6494
1.56	1.64	8.99	9.00	7.93	8.00	1.06	1.00	10.31	10.00	10.31	....	27.00	7479
0.88	0.82	10.46	10.00	9.70	9.00	0.76	1.00	4.03	4.00	4.03	....	25.50	6069
0.86	0.82	10.59	10.00	9.37	9.00	1.22	1.00	4.71	4.00	4.71	....	34.00	5586
0.93	0.82	10.73	10.00	9.37	9.00	1.36	1.00	4.38	4.00	4.38	....	24.45	6029
0.96	0.82	10.51	10.00	9.45	9.00	1.06	1.00	3.94	4.00	3.94	....	6758	
0.94	0.82	10.93	10.00	9.57	9.00	1.36	1.00	*3.59	4.00	3.59	....	33.30	5360
1.66	1.64	13.87	13.00	12.35	12.00	1.52	1.00	*5.74	6.00	5.74	....	31.50	5854
1.70	1.64	12.58	13.00	11.90	12.00	0.68	1.00	6.59	6.00	6.59	....	30.50	6932
1.62	1.65	13.15	13.00	12.67	12.00	0.48	1.00	6.47	6.00	6.47	....	37.50	6485
4.22	4.10	9.57	9.00	8.73	8.00	0.84	1.00	6.81	7.00	6.81	....		
1.18	0.82	10.72	9.50	9.90	9.00	0.82	0.50	4.50	4.00	4.50	....	25.50	7308
0.86	0.82	10.68	9.50	9.88	9.00	0.80	0.50	4.32	4.00	4.32	....	7329	
2.17	1.65	9.73	8.50	8.95	8.00	0.78	0.50	5.56	5.00	5.56	....	6727	
1.84	1.65	8.60	8.50	8.14	8.00	0.46	0.50	7.62	5.00	7.62	....	38.00	6108

\*Deficient.

†Sold at the rate of 25 cts. per can.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
7306	Summer's Best on Earth 2-8-5 Fertilizer....	Freys Hardware Co., Muncy.....
7474	Summer's Best on Earth 2-8-5 Fertilizer....	Ralph M. Hosler, Berwick.....
6307	Summer's Best on Earth 2-8-5 Fertilizer....	Amandas Woodring, Schnecksville.....
6728	Summer's Best on Earth 2-8-10 Fertilizer....	F. M. Berkenbine, Bernville.....
7312	Summer's Best on Earth 2-8-10 Fertilizer....	Freys Hardware Co., Muncy.....
7469	Summer's Best on Earth 2-8-10 Fertilizer....	Charles Rarich, Drums.....
6726	Summer's Best on Earth 2-12-2 Fertilizer....	F. M. Birkenbine, Bernville.....
7309	Summer's Best on Earth 2-12-4 Fertilizer....	Freys Hardware Co., Muncy.....
<b>SWACKS FERTILIZER WORKS, DUBOIS, PA.</b>		
6197	Swack's Double Analysis 2-16-8.....	Wm. Divler, Brookville.....
6529	Swack's Double Analysis 2-16-8.....	L. A. Yeckley, Patton.....
7489	Swack's Double Analysis 2-16-8.....	L. A. Yeckley, Patton.....
6673	Swack's Five Eight Seven.....	Otto Knoll, Cherry Tree.....
6135	Swack's Five Eight Seven.....	P. J. Oesterling & Son, Butler.....
6674	Swack's Four Sixteen Four.....	Otto Knoll, Cherry Tree.....
6528	Swack's Four Sixteen Four.....	L. A. Yeckley, Patton.....
7488	Swack's Four Sixteen Four.....	L. A. Yeckley, Patton.....
6998	Swack's General Crop Grower 1-9-4.....	Wm. Divler, Brookville.....
5524	Swack's General Crop Grower 1-9-4.....	Arthur S. Eiseman, Meadville.....
7361	Swack's General Crop Grower 1-9-4.....	Kline Grain Co., Shelocta.....
5373	Swack's General Crop Grower 1-9-4.....	McCaulley & McKay Co., Brockway.....
5520	Swack's Potato and Truck 2-8-10.....	Arthur S. Eiseman, Meadville.....
5371	Swack's Potato and Truck 2-8-10.....	E. A. Horton, Brockport.....
7363	Swack's Potato and Truck 2-8-10.....	Kline Grain Co., Shelocta.....
6138	Swack's Potato and Truck 2-8-10.....	P. J. Oesterling & Son, Butler.....
6523	Swack's Potato and Truck 2-8-10.....	L. A. Yeckley, Patton.....
5370	Swack's Special Potato 2-10-6.....	E. A. Horton, Brockport.....
7551	Swack's Special Top Dressing 4-8-5.....	P. J. Oesterling & Son, Butler.....
5522	Swack's Two Eight Five.....	Arthur S. Eiseman, Meadville.....
7359	Swack's Two Eight Five.....	Kline Grain Co., Shelocta.....
6136	Swack's Two Eight Five.....	P. J. Oesterling & Son, Butler.....
5521	Swack's Wheat Fertilizer 2-12-2.....	Arthur S. Eiseman, Meadville.....
7552	Swack's Wheat Fertilizer 2-12-2.....	P. J. Oesterling & Son, Butler.....
6363	Swack's Wheat Fertilizer 2-12-2.....	Reynoldsville Hardware, Reynoldsville.....
<b>SWIFT &amp; COMPANY, BALTIMORE, MD.</b>		
5961	Swift's Red Steer 1-9-4.....	Boyer Feed Co., Paxtonville.....
7567	Swift's Red Steer 1-9-4.....	J. H. Figley, New Sheffield.....
7553	Swift's Red Steer 1-9-4.....	H. J. Klingler, Butler.....
5099	Swift's Red Steer 1-9-4.....	W. H. Nesbit, McConnellsburg.....
5775	Swift's Red Steer 1-9-4.....	Obert Brothers, Dushore.....
7012	Swift's Red Steer 1-9-4.....	W. D. Walker & Brother, Bigler.....
5715	Swift's Red Steer 1-9-4.....	Western Flour & Feed, Charleroi.....
6157	Swift's Red Steer 1-9-4.....	R. G. Young & Son, New Galilee.....
5166	Swift's Red Steer 2-8-5.....	Acme Milling Co., Cochranon.....
6965	Swift's Red Steer 2-8-5.....	Acme Milling Co., Cochranon.....
6806	Swift's Red Steer 2-8-5.....	Chambersburg Grain Co., Chambersburg.....
5433	Swift's Red Steer 2-8-5.....	Miles Degler, Bernville.....
6689	Swift's Red Steer 2-8-5.....	Arthur M. Foust, Danville.....
7348	Swift's Red Steer 2-8-5.....	M. W. Hoffman & Co., New Tripoli.....
5739	Swift's Red Steer 2-8-5.....	S. R. Kline, Benton.....
6603	Swift's Red Steer 2-8-5.....	Luzerne County Cooperative Association, Wilkes-Barre.....
5267	Swift's Red Steer 2-8-5.....	Harry T. McDevitt, Mendenhall.....
5068	Swift's Red Steer 2-8-5.....	A. C. Myers, Lock Haven.....
6795	Swift's Red Steer 2-8-5.....	A. C. Myers, Lock Haven.....
5893	Swift's Red Steer 2-8-5.....	Red Lion Exchange, Red Lion.....
7186	Swift's Red Steer 2-8-5.....	Darius Waite, Bellefonte.....
5165	Swift's Red Steer 2-8-10.....	Acme Milling Co., Cochranon.....
6963	Swift's Red Steer 2-8-10.....	Acme Milling Co., Cochranon.....
5415	Swift's Red Steer 2-8-10.....	Wm. B. Diehl, Lehighton.....
7550	Swift's Red Steer 2-8-10.....	E. F. Hays Sons, Chicora.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	£	
1.90	1.65	9.07	8.50	8.45	8.00	0.62	0.50	5.38	5.00	5.38	....	28.75	7306
1.73	1.65	9.22	8.50	8.70	8.00	0.52	0.50	5.07	5.00	5.07	....	26.60	7474
2.06	1.65	9.15	8.50	8.63	8.00	0.52	0.50	5.35	5.00	5.35	....	28.00	6307
1.67	1.65	9.11	8.50	8.43	8.00	0.68	0.50	10.00	10.00	10.00	....	....	6728
1.80	1.65	9.12	8.50	8.44	8.00	0.68	0.50	10.08	10.00	10.08	....	33.50	7312
1.74	1.65	9.35	8.50	8.83	8.00	0.52	0.50	*9.66	10.00	9.66	....	32.00	7469
1.82	1.65	13.06	12.50	11.98	12.00	1.08	0.50	2.45	2.00	2.45	....	....	6726
1.79	1.65	12.96	12.50	12.38	12.00	0.58	0.50	4.38	4.00	4.38	....	31 25	7309
1.51	1.65	16.88	16.50	16.34	16.00	0.54	0.50	8.06	8.00	8.06	....	26.00	6997
1.78	1.65	16.01	16.50	15.83	16.00	0.18	0.50	8.43	8.00	8.43	....	39.00	6529
1.57	1.65	17.55	16.50	17.21	16.00	0.34	0.50	*7.38	8.00	7.38	....	....	7489
4.13	4.12	9.72	9.00	9.42	8.00	0.30	1.00	*6.69	7.00	6.69	....	42.00	6673
*3.60	4.12	8.67	9.00	8.55	8.00	0.12	1.00	7.37	7.00	7.37	....	47.00	6135
3.13	3.30	12.37	16.50	*12.09	16.00	0.28	0.50	5.28	4.00	5.28	....	43.00	6674
3.33	3.30	16.71	16.50	16.33	16.00	0.38	0.50	4.30	4.00	4.30	....	40.00	6528
3.25	3.30	17.93	16.50	17.59	16.00	0.34	0.50	4.09	4.00	4.09	....	40.00	7488
1.06	0.82	10.66	10.00	9.90	9.00	0.76	1.00	4.52	4.00	4.52	....	28.00	6998
0.94	0.82	9.48	10.00	9.28	9.00	0.20	1.00	4.55	4.00	4.55	....	28.75	5524
1.01	0.82	10.69	10.00	10.19	9.00	0.50	1.00	4.39	4.00	4.39	....	28.55	7361
0.91	0.82	10.92	10.00	9.90	9.00	1.02	1.00	4.04	4.00	4.04	....	28.00	5373
1.65	1.65	8.27	9.00	8.09	8.00	0.18	1.00	*9.64	10.00	9.64	....	36.50	5520
1.67	1.65	10.35	9.00	9.93	8.00	0.42	1.00	*6.29	10.00	6.29	....	30.00	5371
1.70	1.65	9.69	9.00	8.65	8.00	0.74	1.00	10.45	10.00	10.45	....	37.50	7363
1.72	1.65	8.51	9.00	8.31	8.00	0.20	1.00	10.07	10.00	10.07	....	40.00	6138
1.65	1.65	9.08	9.00	8.78	8.00	0.30	1.00	10.02	10.00	10.02	....	33.50	6523
1.71	1.65	10.72	11.00	10.36	10.00	0.36	1.00	6.23	6.00	6.23	....	35.05	5370
3.45	3.30	9.06	9.00	8.70	8.00	0.36	1.00	*4.65	5.00	4.65	....	35.00	7551
1.66	1.65	8.60	9.00	8.28	8.00	0.32	1.00	5.10	5.00	5.10	....	32.50	5522
1.65	1.65	10.24	9.00	8.92	8.00	1.32	1.00	5.31	5.00	5.31	....	32.30	7359
1.68	1.65	8.56	9.00	7.90	8.00	0.66	1.00	5.15	5.00	5.15	....	35.00	6136
1.52	1.65	12.40	13.00	12.04	12.00	0.36	1.00	2.13	2.00	2.13	....	32.50	5521
1.77	1.65	13.24	13.00	12.00	12.00	1.24	1.00	1.88	2.00	1.88	....	30.00	7552
1.76	1.65	13.01	13.00	12.09	12.00	0.92	1.00	2.13	2.00	2.13	....	31.00	6363
0.92	0.82	9.25	9.00	9.03	9.00	0.22	....	4.57	4.00	4.57	....	....	5961
0.90	0.82	9.82	9.00	9.18	9.00	0.64	....	4.22	4.00	4.22	....	28.00	7567
0.96	0.82	9.75	9.00	9.25	9.00	0.50	....	4.09	4.00	4.09	....	32.00	7553
0.97	0.82	9.27	9.00	9.01	9.00	0.26	....	4.47	4.00	4.47	....	27.50	5099
0.92	0.82	9.73	9.00	9.21	9.00	0.52	....	4.15	4.00	4.15	....	28.00	5775
0.97	0.82	9.77	9.00	9.17	9.00	0.60	....	4.09	4.00	4.09	....	32.00	7012
1.15	0.82	10.13	9.00	9.73	9.00	0.40	....	4.23	4.00	4.23	....	30.00	5715
1.16	0.82	9.95	9.00	9.51	9.00	0.44	....	4.45	4.00	4.45	....	30.00	6157
1.77	1.65	8.39	8.00	8.03	8.00	0.36	....	6.17	5.00	5.40	0.77	31.60	5166
1.66	1.65	9.44	8.00	8.58	8.00	0.86	....	5.01	5.00	5.01	....	31.50	6965
1.71	1.65	8.88	8.00	8.16	8.00	0.72	....	4.86	5.00	4.86	....	....	6806
1.56	1.65	8.29	8.00	8.03	8.00	0.26	....	5.09	5.00	5.09	....	....	5433
1.78	1.65	8.65	8.00	8.35	8.00	0.30	....	5.14	5.00	5.14	....	26.50	6689
1.92	1.65	9.10	8.00	8.74	8.00	0.36	....	5.29	5.00	5.29	....	28.00	7348
1.54	1.65	8.38	8.00	8.12	8.00	0.26	....	5.91	5.00	5.91	....	29.60	5739
1.65	1.65	8.99	8.00	8.63	8.00	0.36	....	5.31	5.00	5.31	....	26.25	6603
1.70	1.65	8.42	8.00	8.12	8.00	0.30	....	5.10	5.00	5.10	....	29.60	5267
1.80	1.65	8.47	8.00	8.21	8.00	0.26	....	5.02	5.00	5.02	....	28.50	5068
1.66	1.65	8.67	8.00	8.13	8.00	0.54	....	5.05	5.00	5.05	....	28.50	6795
1.59	1.65	8.19	8.00	7.93	8.00	0.26	....	5.40	5.00	5.40	....	....	5893
1.70	1.65	8.93	8.00	8.59	8.00	0.34	....	5.21	5.00	5.21	....	30.00	7186
1.75	1.65	8.51	8.00	8.19	8.00	0.32	....	10.01	10.00	9.30	0.71	36.35	5165
1.78	1.65	9.16	8.00	8.22	8.00	0.94	....	9.96	10.00	9.96	....	36.00	6963
1.76	1.65	8.67	8.00	8.25	8.00	0.42	....	10.00	10.00	10.00	....	....	5415
1.84	1.65	9.85	8.00	8.85	8.00	1.00	....	11.05	10.00	11.05	....	39.00	7550

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5264	Swift's Red Steer 2-8-10.	Harry T. McDevitt, Mendenhall.
5776	Swift's Red Steer 2-8-10.	Obert Brothers, Dushore.
5892	Swift's Red Steer 2-8-10.	Red Lion Exchange, Red Lion.
7568	Swift's Red Steer 2-12-2.	J. H. Figley, New Sheffield.
7549	Swift's Red Steer 2-12-2.	E. F. Hays Sons, Chicora.
5070	Swift's Red Steer 2-12-2.	A. C. Myers, Lock Haven.
5572	Swift's Red Steer 2-12-2.	Archie Ridall, Berwick.
7010	Swift's Red Steer 2-12-2.	W. D. Walker & Brother, Bigler.
7269	Swift's Red Star 2-12-2.	Western Flour Co., Charleroi.
6156	Swift's Red Steer 2-12-2.	R. G. Young & Son, New Galilee.
6687	Swift's Red Steer 2-12-4.	Arthur M. Foust, Danville.
5802	Swift's Red Steer 2-12-4.	Ed. Hess, Philipsburg.
5740	Swift's Red Steer 2-12-4.	S. R. Kline, Benton.
5067	Swift's Red Steer 2-12-4.	A. C. Myers, Lock Haven.
7372	Swift's Red Steer 2-12-4.	H. W. Richards, Murrysville.
5556	Swift's Red Steer 2-12-4.	John D. Williams, Moscow.
7392	Swift's Red Steer 2-16-8.	W. W. Kalb, Sunbury.
6796	Swift's Red Steer 2-16-8.	A. C. Myers, Lock Haven.
7371	Swift's Red Steer 2-16-8.	H. W. Richards, Murrysville.
5788	Swift's Red Steer 2-16-8.	Darius Waite, Bellefonte.
5891	Swift's Red Steer 3-10-6.	Red Lion Exchange, Red Lion.
5557	Swift's Red Steer 3-10-6.	John D. Williams, Moscow.
6468	Swift's Red Steer 3-12-5.	Luzerne County Cooperative Association, Wilkes-Barre.
6470	Swift's Red Steer 4-8-4.	Luzerne County Cooperative Association, Wilkes-Barre.
5266	Swift's Red Steer 4-8-4.	Harry T. McDevitt, Mendenhall.
5741	Swift's Red Steer 4-8-7.	S. R. Kline, Benton.
5098	Swift's Red Steer 4-8-7.	W. H. Nesbit, McConnellsburg.
5890	Swift's Red Steer 4-8-7.	Red Lion Exchange, Red Lion.
7011	Swift's Red Steer 4-8-7.	W. D. Walker & Brother, Bigler.
5779	Swift's Red Steer 4-8-7.	A. E. Woodruff & Son, Wysox.
6469	Swift's Red Steer 4-8-10.	Luzerne County Cooperative Association, Wilkes-Barre.
5571	Swift's Red Steer 4-8-10.	Archie Ridall, Berwick.
6964	Swift's Red Steer 4-12-4.	Acme Milling Co., Cochranston.
5416	Swift's Red Steer 4-12-4.	Wm. B. Diehl, Leighton.
7548	Swift's Red Steer 4-12-4.	E. F. Hays Sons, Chicora.
5172	Swift's Red Steer 4-12-4.	J. H. Lavery Sons, Franklin.
5714	Swift's Red Steer 4-12-4.	Western Flour Co., Charleroi.
7272	Swift's Red Steer 4-12-4.	Western Flour Co., Charleroi.
5552	Swift's Red Steer 4-12-4.	John D. Williams, Moscow.
5964	Swift's Red Steer 4-16-4.	Boyer Feed Co., Paxtonville.
5173	Swift's Red Steer 4-16-4.	J. H. Lavery Sons, Franklin.
7563	Swift's Red Steer 4-16-4.	Midland Milling & Supply Co., Midland.
5713	Swift's Red Steer 4-16-4.	Western Flour Co., Charleroi.
7273	Swift's Red Steer 4-16-4.	Western Flour Co., Charleroi.
5780	Swift's Red Steer 4-16-4.	A. E. Woodruff & Son, Wysox.
7373	Swift's Red Steer 4-16-10.	H. W. Richards, Murrysville.
6142	Swift's Red Steer 5-8-5.	J. H. Figley, New Sheffield.
5804	Swift's Red Steer 5-8-5.	Ed. Hess, Philipsburg.
6092	Swift's Red Steer 5-8-5.	J. K. Vessey, Warren.
5553	Swift's Red Steer 5-8-5.	John D. Williams, Moscow.
5789	Swift's Red Steer 5-8-7.	Darius Waite, Bellefonte.
6102	Swift's Red Steer 5-13-8.	West Side Feed & Fuel Co., Erie.
5963	Swift's Red Steer 6-8-4.	Boyer Feed Co., Paxtonville.
6018	Swift's Red Steer 6-8-4.	Archie Redell, Beach Haven.
5558	Swift's Red Steer 7-6-5.	John D. Williams, Moscow.
6060	Swift's Vigoro.	Devling Brothers, Galeton.
6375	Swift's Vigoro.	Hibner-Hoover Hardware, DuBois.
6208	Swift's Vigoro.	W. W. Kalb, Sunbury.
7097	Swift's Vigoro.	Knabe Brothers, Turtle Creek.
5174	Swift's Vigoro.	J. H. Lavery Sons, Franklin.
7122	Swift's Vigoro.	Moore Seed Co., Philadelphia.

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.86	1.65	8.42	8.00	8.08	8.00	0.34	....	*9.78	10.00	9.78	....	33.75	5264
1.75	1.65	8.44	8.00	8.10	8.00	0.34	....	9.86	10.00	9.86	....	32.50	5776
1.84	1.65	8.47	8.00	8.13	8.00	0.34	....	*9.76	10.00	9.76	....	....	5892
1.75	1.65	13.29	12.00	12.35	12.00	0.94	....	2.18	2.00	1.50	0.68	32.00	7568
1.76	1.65	14.67	12.00	13.61	12.00	1.06	....	2.36	2.00	2.36	....	36.00	7549
1.90	1.65	12.83	12.00	12.03	12.00	0.80	....	2.19	2.00	2.19	....	30.10	5070
1.66	1.65	12.85	12.00	11.89	12.00	0.96	....	2.38	2.00	2.38	....	27.00	5572
1.66	1.65	13.27	12.00	12.11	12.00	1.16	....	2.00	2.00	2.00	....	34.00	7010
1.80	1.65	14.14	12.00	13.28	12.00	0.86	....	2.36	2.00	2.36	....	29.95	7269
1.93	1.65	12.65	12.00	11.81	12.00	0.84	....	2.57	2.00	2.57	....	33.75	6156
1.75	1.65	12.92	12.00	12.00	12.00	0.92	....	4.45	4.00	4.45	....	28.75	6687
1.88	1.65	12.76	12.00	11.84	12.00	0.92	....	4.33	4.00	4.33	....	32.05	5802
1.76	1.65	13.61	12.00	12.17	12.00	0.84	....	4.66	4.00	4.66	....	31.86	5740
1.84	1.65	13.14	12.00	12.50	12.00	0.64	....	4.47	4.00	4.47	....	31.00	5067
1.65	1.65	13.28	12.00	12.82	12.00	0.46	....	3.90	4.00	3.90	....	37.00	7372
1.79	1.65	13.52	12.00	12.26	12.00	1.32	....	4.00	4.00	4.00	....	34.25	5556
1.73	1.65	17.55	16.00	17.21	16.00	0.34	....	8.26	8.00	8.26	....	36.00	7392
1.70	1.65	17.09	16.00	16.53	16.00	0.56	....	8.22	8.00	8.22	....	....	6796
1.72	1.65	17.73	16.00	17.39	16.00	0.34	....	8.09	8.00	8.09	....	47.00	7371
1.90	1.65	17.20	16.00	16.64	16.00	0.56	....	8.46	8.00	8.46	....	43.00	5788
2.79	2.47	11.20	10.00	10.66	10.00	0.54	....	6.30	6.00	6.30	....	....	5891
2.47	2.47	10.72	10.00	10.20	10.00	0.52	....	6.08	6.00	6.08	....	37.60	5557
2.44	2.47	12.48	12.00	12.16	12.00	0.32	....	5.55	5.00	5.55	....	21.50	6468
3.35	3.29	9.11	8.00	8.39	8.00	0.72	....	4.35	4.00	4.35	....	30.75	6470
3.29	3.29	8.47	8.00	7.99	8.00	0.48	....	4.23	4.00	4.23	....	34.00	5266
3.35	3.29	8.65	8.00	8.07	8.00	0.58	....	7.29	7.00	7.29	....	37.20	5741
3.29	3.29	8.62	8.00	8.00	8.00	0.62	....	7.10	7.00	7.10	....	37.50	5098
3.33	3.29	8.79	8.00	8.15	8.00	0.64	....	7.30	7.00	7.30	....	....	5890
3.12	3.29	8.73	8.00	8.25	8.00	0.48	....	7.16	7.00	7.16	....	42.00	7011
3.29	3.29	8.71	8.00	7.99	8.00	0.72	....	7.09	7.00	7.09	....	38.00	5779
3.31	3.29	8.93	8.00	8.45	8.00	0.48	....	10.16	10.00	10.16	....	36.50	6469
3.43	3.29	8.70	8.00	8.22	8.00	0.48	....	10.57	10.00	10.57	....	38.00	5571
3.59	3.29	14.30	12.00	13.38	12.00	0.92	....	4.41	4.00	3.60	0.81	40.00	6964
3.57	3.29	12.39	12.00	12.01	12.00	0.38	....	4.10	4.00	4.10	....	....	5416
3.23	3.29	14.67	12.00	13.89	12.00	0.78	....	4.11	4.00	3.60	0.51	42.00	7548
3.44	3.29	13.06	12.00	12.78	12.00	0.28	....	4.13	4.00	4.13	....	43.35	5172
*2.92	3.29	13.93	12.00	13.59	12.00	0.34	....	*3.77	4.00	3.77	....	40.60	5714
3.51	3.29	13.90	12.00	13.04	12.00	0.86	....	4.19	4.00	4.19	....	38.30	7272
3.62	3.29	12.65	12.00	12.33	12.00	0.32	....	4.39	4.00	4.39	....	40.00	5552
3.54	3.29	16.90	16.00	16.44	16.00	0.46	....	4.31	4.00	4.31	....	....	5964
3.43	3.29	17.00	16.00	16.74	16.00	0.26	....	4.45	4.00	4.45	....	47.50	5173
3.56	3.29	18.50	16.00	17.66	16.00	0.84	....	4.47	4.00	4.47	....	43.00	7563
3.37	3.29	16.70	16.00	16.48	16.00	0.22	....	4.37	4.00	4.37	....	44.50	5713
3.29	3.29	18.39	16.00	17.89	16.00	0.50	....	4.29	4.00	3.60	0.69	42.86	7273
3.15	3.29	14.50	16.00	*13.82	16.00	0.68	....	4.91	4.00	4.91	....	43.00	5780
3.36	3.29	17.11	16.00	16.97	16.00	0.14	....	10.34	10.00	10.34	....	58.00	7373
4.18	4.11	8.29	8.00	8.01	8.00	0.28	....	5.00	5.00	5.00	....	44.00	6142
4.04	4.11	8.20	8.00	*7.58	8.00	0.62	....	5.16	5.00	5.16	....	....	5804
4.02	4.11	8.67	8.00	8.33	8.00	0.34	....	5.41	5.00	5.41	....	....	6092
4.01	4.11	8.47	8.00	7.97	8.00	0.50	....	5.13	5.00	5.13	....	41.25	5553
4.06	4.11	8.79	8.00	7.95	8.00	0.84	....	7.28	7.00	7.28	....	43.00	5789
4.12	4.11	12.58	13.00	10.98	11.00	1.60	2.00	8.81	8.00	8.81	....	45.00	6102
*4.73	4.93	8.87	8.00	8.23	8.00	0.64	....	4.08	4.00	4.08	....	....	5963
4.84	4.93	8.84	8.00	8.12	8.00	0.72	....	4.51	4.00	4.51	....	38.50	6018
*5.35	5.76	7.73	6.00	7.19	6.00	0.54	....	5.11	5.00	5.11	....	45.50	5558
3.38	3.29	13.67	12.30	12.71	12.00	0.36	0.30	4.31	4.00	4.31	....	100.00	6060
3.43	3.29	12.82	12.30	12.58	12.00	0.24	0.50	4.22	4.00	4.22	....	100.00	6375
3.57	3.29	12.96	12.30	12.56	12.00	0.40	0.30	4.37	4.00	4.37	....	....	6208
3.44	3.29	13.32	12.00	12.90	12.00	0.42	....	4.44	4.00	4.44	....	100.00	7097
3.41	3.29	12.40	12.00	12.12	12.00	0.28	....	4.29	4.00	3.40	0.89	100.00	5174
3.37	3.29	13.11	12.00	12.79	12.00	0.32	....	4.33	4.00	4.33	....	110.00	7122

\*Deficient.

†Sold at the rate of 50 cts. for 5 lbs.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6686	SYNTHETIC NITROGEN PRODUCTS CORPORATION, NEW YORK, N. Y. Nitrophoska.....	M. B. Kephart, Huntingdon.....
7068	I. P. THOMAS & SON COMPANY PHILADELPHIA, PA.	
6376	Champion Guano 2-10-6.....	Clint Bonson, Reedsville.....
5684	Champion Guano 2-10-6.....	J. C. Bonson, Milroy.....
6691	Champion Guano 2-10-6.....	Preston Eves & Son, Millville.....
6856	Double Strength Victor 4-16-10.....	C. W. Thomas, Danville.....
5356	Double Strength Victor 4-16-10.....	Buffalo Valley Farmers & Consumers Association, Lewisburg.....
6025	Double Strength Victor 4-16-10.....	Elk Cooperative Creamery, St. Marys.....
5828	Double Strength Victor 4-16-10.....	J. E. Harmon, Berwick.....
5272	Economy Fertilizer 3-12-3.....	James Markle, State College.....
6022	Economy Fertilizer 3-12-3.....	Chester County Farm Bureau, West Chester.....
5829	Economy Fertilizer 3-12-3.....	J. E. Harmon, Berwick.....
5256	Farmers' Choice 2-12-2.....	James Markle, State College.....
5362	Farmers' Choice 2-12-2.....	Chester County Farm Bureau, West Chester.....
7005	Farmers' Choice 2-12-2.....	Elk Cooperative Creamery, St. Marys.....
7466	Farmers' Choice 2-12-2.....	Farmers' Exchange, Clearfield.....
5683	Fish Mixture 1-9-4.....	James E. Harmon, Berwick.....
7009	Fish Mixture 1-9-4.....	Preston Eves & Son, Millville.....
7144	Fish Mixture 1-9-4.....	Farmers' Exchange, Clearfield.....
6024	Fish Mixture 1-9-4.....	C. E. Gobrecht, Hanover.....
6695	Fish Mixture 1-9-4.....	J. E. Harmon, Berwick.....
6590	Royal Fish Guano 4-8-5.....	C. W. Thomas, Danville.....
5258	Royal Fish Guano 4-8-5.....	Beaver County Cooperative Association, Beaver..
7006	Royal Fish Guano 4-8-5.....	Chester County Farm Bureau, West Chester.....
5050	Royal Fish Guano 4-8-5.....	Farmers' Exchange, Clearfield.....
7380	Special Mixture 2-12-4.....	Frank Warfel, Quarryville.....
6592	Special Potato 2-8-10.....	Danville State Hospital, Danville.....
6855	Special Potato 2-8-10.....	Beaver County Cooperative Association, Beaver..
5255	Special Potato 2-8-10.....	Buffalo Valley Farmers & Consumers Association, Lewisburg.....
5680	Special Potato 2-8-10.....	Chester County Farm Bureau, West Chester.....
7145	Special Potato 2-8-10.....	Preston Eves & Son, Millville.....
5049	Special Potato 2-8-10.....	C. E. Gobrecht, Hanover.....
7459	Thomas 2-12-5 Fertilizer.....	Frank Warfel, Quarryville.....
6692	Thomas 2-12-5 Fertilizer.....	James E. Harmon, Berwick.....
5584	Thomas Fish and Potash Fertilizer 5-8-5.....	C. W. Thomas, Danville.....
5361	Tip Top Superphosphate 3-10-6.....	Farmers' Exchange, Clearfield.....
6693	Tip Top Superphosphate 3-10-6.....	Elk Cooperative Creamery, St. Marys.....
5259	Victor Potash Fertilizer 2-8-5.....	C. W. Thomas, Danville.....
7143	Victor Potash Fertilizer 2-8-5.....	Chester County Farm Bureau, West Chester.....
6314	Victor Potash Fertilizer 2-8-5.....	C. E. Gobrecht, Hanover.....
6694	Victor Potash Fertilizer 2-8-5.....	George K. Sondag, Hamburg.....
5051	Victor Potash Fertilizer 2-8-5.....	C. W. Thomas, Danville.....
	WM. THOMSON & SONS, LTD., CLOVENFORDS, SCOTLAND	Frank Warfel, Quarryville.....
7117	Thomson's Special Top Dressing Manure.....	Henry F. Michell Co., Philadelphia.....
6565	TRENTON BONE FERTILIZER CO., TRENTON, N. J.	
6566	Trenton 3-12-3.....	L. A. Howell, Morrisville.....
	Trenton 4-8-7.....	L. A. Howell, Morrisville.....
6719	F. W. TUNNELL & CO., INC., PHILADELPHIA, PA.	
7521	Fish Manure with Potash 2-10-6.....	L. F. Christman, Lehighton.....
5911	Fish Manure with Potash 2-10-6.....	J. R. Roberts, Glen Moore.....
7106	Fish Manure with Potash 2-10-6.....	Arthur Switzgabel, Brodheadsville.....
5912	Nassau County Potato Manure 5-8-5.....	F. W. Tunnell & Co., Inc., Philadelphia.....
		Arthur Switzgabel, Brodheadsville.....

## FERTILIZERS—Continued.

NITROGEN		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
14.96	15.00	30.45	....	30.43	30.00	0.02	....	15.95	15.00	15.95	....	110.00	6686
1.96	1.65	12.02	11.00	10.82	10.00	1.20	1.00	6.09	6.00	6.09	....	31.60	7068
1.99	1.65	12.08	11.00	10.90	10.00	1.18	1.00	6.54	6.00	5.20	1.34	32.00	6376
1.86	1.65	11.84	11.00	10.82	10.00	1.02	1.00	6.25	6.00	4.70	1.55	31.00	5684
1.94	1.65	11.53	11.00	10.47	10.00	1.06	1.00	*5.78	6.00	4.60	1.18	31.20	6691
3.57	3.25	16.75	16.00	15.91	16.00	0.84	....	9.89	10.00	8.70	1.19	46.00	6856
3.40	3.25	17.20	16.00	16.30	16.00	0.90	....	10.46	10.00	7.60	2.86	50.50	5356
3.69	3.25	18.24	16.00	17.10	16.00	1.14	....	10.15	10.00	10.15	....	48.00	6025
3.74	3.25	18.56	16.00	17.30	16.00	1.26	....	10.02	10.00	10.02	....	....	5828
2.79	2.45	14.75	13.00	12.95	12.00	1.80	1.00	3.10	3.00	2.40	0.70	29.40	5272
2.77	2.45	14.36	13.00	12.62	12.00	1.74	1.00	3.62	3.00	2.30	1.32	36.75	6022
2.85	2.45	14.38	13.00	12.60	12.00	1.78	1.00	3.10	3.00	2.50	0.60	....	5829
1.93	1.65	14.32	13.00	11.88	12.00	2.44	1.00	2.72	2.00	....	2.72	25.50	5256
1.97	1.65	15.23	13.00	12.47	12.00	2.76	1.00	2.52	2.00	....	2.52	32.00	5362
1.96	1.65	15.33	12.00	12.31	12.00	3.02	....	2.03	2.00	1.00	1.03	38.00	7005
1.95	1.65	13.97	13.00	12.59	12.00	1.38	1.00	2.67	2.00	2.67	....	....	7466
1.05	0.82	11.82	10.00	10.12	9.00	1.70	1.00	4.72	4.00	3.70	1.02	25.65	5683
1.35	0.82	11.37	10.00	9.85	9.00	1.52	1.00	4.38	4.00	2.70	1.68	34.00	7009
1.07	0.82	10.46	10.00	9.50	9.00	0.96	1.00	3.98	4.00	3.60	0.38	....	7144
1.10	0.82	12.02	10.00	10.54	9.00	1.48	1.00	3.93	4.00	2.70	1.23	27.70	6024
1.08	0.82	10.55	10.00	9.45	9.00	1.10	1.00	4.00	4.00	4.00	....	25.50	6695
3.39	3.25	9.99	9.00	9.03	8.00	0.96	1.00	5.42	5.00	4.50	0.92	44.00	6590
3.50	3.25	10.03	9.00	8.77	8.00	1.26	1.00	5.45	5.00	4.10	1.35	31.20	5258
3.45	3.25	9.95	9.00	8.55	8.00	1.40	1.00	5.44	5.00	4.60	0.84	43.00	7006
3.37	3.25	9.72	9.00	8.48	8.00	1.24	1.00	5.27	5.00	3.60	1.67	....	5050
1.97	1.65	13.99	13.00	12.35	12.00	1.64	1.00	4.43	4.00	3.70	0.73	....	7380
1.84	1.65	9.82	9.00	8.88	8.00	0.94	1.00	10.22	10.00	9.20	1.02	....	6592
1.84	1.65	9.91	9.00	8.97	8.00	0.94	1.00	10.05	10.00	10.05	....	....	6855
1.84	1.65	9.44	9.00	8.48	8.00	0.96	1.00	10.60	10.00	9.40	1.20	30.00	5255
1.87	1.65	9.61	9.00	8.51	8.00	1.10	1.00	10.74	10.00	9.40	1.34	33.25	5680
1.90	1.65	9.89	9.00	9.09	8.00	0.80	1.00	10.47	10.00	10.47	....	....	7145
1.92	1.65	9.93	9.00	8.67	8.00	1.26	1.00	10.29	10.00	....	10.29	....	5049
2.02	1.65	13.62	13.00	12.22	12.00	1.40	1.00	5.32	5.00	4.70	0.62	29.00	7459
2.07	1.65	14.03	13.00	12.75	12.00	1.28	1.00	5.12	5.00	3.60	1.52	32.20	6692
4.10	4.10	9.57	9.00	8.47	8.00	1.10	1.00	5.69	5.00	4.40	1.29	48.00	5584
2.47	2.45	12.63	11.00	10.79	10.00	1.84	1.00	6.46	6.00	5.30	1.16	35.65	5361
2.57	2.45	12.03	11.00	10.93	10.00	1.10	1.00	6.12	6.00	4.60	1.52	34.25	6693
1.95	1.65	9.75	9.00	9.01	8.00	0.74	1.00	5.47	5.00	3.90	1.57	25.00	5259
1.88	1.65	9.63	9.00	8.59	8.00	1.04	1.00	5.35	5.00	4.80	0.55	....	7143
2.53	1.65	9.76	9.00	8.84	8.00	0.92	1.00	6.18	5.00	5.50	0.68	....	6314
1.90	1.65	9.67	9.00	8.61	8.00	1.06	1.00	5.10	5.00	4.50	0.60	28.65	6694
1.89	1.65	9.78	9.00	9.04	8.00	0.74	1.00	5.63	5.00	4.20	1.43	....	5051
4.66	4.00	14.26	10.00	10.74	7.00	3.52	3.00	4.85	2.50	....	4.85	‡....	7117
2.58	2.46	12.66	13.00	12.36	12.00	0.30	1.00	3.58	3.00	3.58	....	34.00	6565
3.34	3.28	9.24	9.00	8.68	8.00	0.56	1.00	7.21	7.00	7.21	....	37.00	6566
1.82	1.64	11.66	11.00	10.76	10.00	0.90	1.00	6.32	6.00	5.70	0.62	....	6719
1.86	1.64	11.58	11.00	10.58	10.00	1.00	1.00	6.77	6.00	6.00	0.77	33.00	7521
1.90	1.64	11.05	11.00	10.53	10.00	0.52	1.00	6.30	6.00	5.50	0.80	28.60	5911
1.66	1.64	11.48	11.00	10.94	10.00	0.54	1.00	6.39	6.00	5.40	0.99	26.70	7106
4.05	4.10	9.15	9.00	8.83	8.00	0.32	1.00	5.05	5.00	4.00	1.05	38.00	5912

‡Sold at the rate of \$7.00 for 56 lbs.

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6720	Red Diamond Potato and Truck Guano 2-8-10.....	L. F. Christman, Lehighton.....
6036	Red Diamond Potato and Truck Guano 2-8-10.....	Jackson & Hortman, Hop Bottom.....
6563	Red Diamond Potato and Truck Guano 2-8-10.....	Knerr & Matern, West Point.....
7105	Red Diamond Potato and Truck Guano 2-8-10.....	F. W. Tunnell & Co., Inc., Philadelphia.....
7324	Standard Cereal Manure 2-12-4.....	Martin F. Christman, Lehighton.....
6351	Three M Potato Manure 4-8-7.....	Joseph Hallowell, Ivyland.....
6721	Veribest Cereal Manure 2-8-5.....	L. F. Christman, Lehighton.....
6564	Veribest Cereal Manure 2-8-5.....	Knerr & Matern, West Point.....
7517	Veribest Cereal Manure 2-8-5.....	Knerr & Matern, West Point.....
7107	Veribest Cereal Manure 2-8-5.....	F. W. Tunnell & Co., Inc., Philadelphia.....
7518	Wheat and Cereal Manure 1-9-4.....	Knerr & Matern, West Point.....
5913	Wheat and Cereal Manure 1-9-4.....	Arthur Switzgabel, Brodheads ville.....
UNION CHEMICAL WORKS, INC., NORTH WALES, PA.		
6561	Crop Grower.....	Union Chemical Works, Inc., North Wales.....
6556	Eastern Trucker.....	Union Chemical Works, Inc., North Wales.....
7255	Eastern Trucker.....	Union Chemical Works, Inc., North Wales.....
6559	Farmers' Favorite.....	Union Chemical Works, Inc., North Wales.....
7257	Farmers' Favorite.....	Union Chemical Works, Inc., North Wales.....
6557	Grain and Grass Grower.....	Union Chemical Works, Inc., North Wales.....
7254	Grain and Grass Grower.....	Union Chemical Works, Inc., North Wales.....
7256	High Grade Vegetable Guano.....	Union Chemical Works, Inc., North Wales.....
6558	Ideal Potato Manure.....	Union Chemical Works, Inc., North Wales.....
6560	Potato and Celery Special.....	Union Chemical Works, Inc., North Wales.....
7258	Potato and Celery Special.....	Union Chemical Works, Inc., North Wales.....
UNITED STATES GUANO COM- PANY, BALTIMORE, MD.		
6530	Standard United States Farmers Delight.....	Wm. Grant Beaver, Catawissa.....
5242	Standard United States Farmers Delight.....	F. A. Showers, Clarion.....
6972	Standard United States Gardener's Friend.....	Neil S. Harrison, Forks.....
6477	Standard United States General Use Guano.....	M. H. Arnold, Sand Patch.....
6973	Standard United States General Use Guano.....	Neil S. Harrison, Forks.....
6539	Standard United States General Use Guano.....	J. K. Lewis, Honeybrook.....
7432	Standard United States Mammoth Potato Grower.....	Preston Eves & Son, Millville.....
6476	Standard United States Mammoth Truck Grower.....	M. H. Arnold, Sand Patch.....
6063	Standard United States Mammoth Truck Grower.....	M. P. Close, Tioga.....
6538	Standard United States Mammoth Truck Grower.....	J. K. Lewis, Honeybrook.....
7165	Standard United States Mammoth Truck Grower.....	J. R. Rhoades, Quarryville.....
5888	Standard United States Royal Potato Grower.....	J. K. Lewis, Honeybrook.....
7430	Standard United States Service Mixture.....	Preston Eves & Son, Millville.....
VIRGINIA-CAROLINA CHEMICAL CORPORATION, NEW YORK, N. Y.		
6663	American Double Special Brand.....	Luther Bence, Dixonville.....
6662	American Fish and Potash Compound.....	Luther Bence, Dixonville.....
5934	V-C Cottonseed Formula for Tobacco.....	Joseph K. Shultz, Estate, Washington Boro.....
7565	V-C Double Owl Brand.....	Bickerstaff-Todd, New Sheffield.....
5819	V-C Double Owl Brand.....	Norman Black, Alexandria.....
6031	V-C Double Owl Brand.....	Bert Crisman, Factoryville.....
6259	V-C Double Owl Brand.....	E. J. Hite, Hollidaysburg.....
5973	V-C Double Owl Brand.....	West Apollo Milling Co., Apollo.....
6293	V-C Fish and Potash Compound.....	H. C. Beerits Sons, Somerset.....

## FERTILIZERS—Continued.

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	£	
1.64	1.64	8.90	9.00	8.56	8.00	0.34	1.00	10.68	10.00	10.68	....	....	6720
1.57	1.64	9.18	9.00	8.80	8.00	0.38	1.00	10.54	10.00	10.54	....	34.00	6036
1.90	1.64	9.20	9.00	8.84	8.00	0.36	1.00	10.29	10.00	9.80	0.49	26.00	6563
1.72	1.64	9.10	9.00	8.74	8.00	0.36	1.00	10.47	10.00	10.47	....	28.95	7105
1.80	1.64	13.30	13.00	12.64	12.00	0.66	1.00	4.60	4.00	4.60	....	31.00	7324
*3.05	3.28	8.88	9.00	8.56	8.00	0.32	1.00	7.69	7.00	7.69	....	34.50	6351
1.66	1.64	9.25	9.00	8.93	8.00	0.32	1.00	5.74	5.00	5.74	....	....	6721
1.52	1.64	9.50	9.00	9.06	8.00	0.44	1.00	5.31	5.00	5.31	....	32.00	6564
1.73	1.64	9.39	9.00	9.03	8.00	0.36	1.00	5.29	5.00	5.29	....	30.00	7517
1.64	1.64	9.40	9.00	9.08	8.00	0.32	1.00	5.21	5.00	5.21	....	....	7107
1.05	0.82	11.03	10.00	10.11	9.00	0.92	1.00	4.15	4.00	4.15	....	27.00	7518
1.11	0.82	10.20	10.00	9.74	9.00	0.46	1.00	4.61	4.00	4.61	....	25.65	5913
1.77	1.64	12.81	13.00	12.29	12.00	0.52	1.00	4.27	4.00	4.27	....	32.00	6561
2.35	2.46	13.22	13.00	12.68	12.00	0.54	1.00	5.03	5.00	4.60	0.43	34.00	6556
2.50	2.46	13.14	13.00	12.60	12.00	0.54	1.00	5.29	5.00	5.29	....	33.00	7255
0.94	0.82	9.44	10.00	8.92	9.00	0.52	1.00	4.00	4.00	4.00	....	25.00	6559
0.93	0.82	9.77	10.00	9.53	9.00	0.24	1.00	4.19	4.00	4.19	....	24.00	7257
1.65	1.64	8.42	9.00	7.84	8.00	0.58	1.00	5.12	5.00	5.12	....	28.00	6557
1.67	1.64	8.55	9.00	8.15	8.00	0.40	1.00	4.91	5.00	4.91	....	27.00	7254
3.17	3.28	8.09	8.00	7.81	7.00	0.28	1.00	*6.69	7.00	6.69	....	35.00	7256
3.20	3.28	8.61	9.00	8.11	8.00	0.50	1.00	10.29	10.00	10.29	....	39.00	6558
1.64	1.64	7.65	8.00	7.41	7.00	0.24	1.00	11.54	10.00	11.54	....	32.50	6560
1.68	1.64	7.78	8.00	7.54	7.00	0.24	1.00	*9.65	10.00	9.65	....	31.50	7258
2.51	2.47	12.63	12.50	*11.41	12.00	1.22	0.50	6.64	6.00	6.64	....	29.25	6530
2.69	2.47	12.31	12.50	*11.21	12.00	1.10	0.50	6.28	6.00	6.28	....	32.00	5242
1.77	1.65	10.54	9.50	9.40	9.00	1.14	0.50	5.09	3.00	5.09	....	27.00	6972
1.72	1.65	12.36	12.50	*11.54	12.00	0.82	0.50	6.62	4.00	6.62	....	26.45	6477
1.95	1.65	12.14	12.50	*11.22	12.00	0.92	0.50	4.57	4.00	4.57	....	29.00	6973
2.03	1.65	12.42	12.50	*11.68	12.00	0.74	0.50	4.38	4.00	4.38	....	29.00	6539
1.86	1.65	9.29	8.50	8.29	8.00	1.00	0.50	10.21	10.00	10.21	....	30.75	7432
1.84	1.65	9.40	8.50	8.96	8.00	0.44	0.50	4.92	5.00	3.60	1.32	24.60	6476
1.99	1.65	11.16	8.50	10.02	8.00	1.14	0.50	*4.58	5.00	4.58	....	32.00	6063
1.92	1.65	10.01	8.50	9.47	8.00	0.54	0.50	5.17	5.00	4.60	0.57	27.00	6538
1.85	1.65	10.56	8.50	8.98	8.00	1.58	0.50	*4.70	5.00	4.70	....	....	7165
3.27	3.30	8.75	8.50	8.25	8.00	0.50	0.50	7.44	7.00	7.44	....	33.00	5888
1.95	1.65	12.50	12.50	*11.42	12.00	1.08	0.50	6.36	6.00	6.36	....	30.25	7430
*2.95	3.29	16.59	17.00	*15.03	16.00	1.56	1.00	*5.77	6.00	5.77	....	45.00	6663
1.71	1.64	12.12	10.00	9.36	9.00	2.76	1.00	3.34	3.00	3.34	....	30.00	6662
4.32	4.11	4.41	5.00	4.17	4.00	0.24	1.00	5.34	5.00	....	5.34	42.00	5934
3.32	3.29	9.24	9.00	8.16	8.00	1.08	1.00	*6.77	7.00	6.77	....	43.00	7565
3.45	3.29	9.16	9.00	8.06	8.00	1.10	1.00	7.41	7.00	7.41	....	....	5819
3.61	3.29	9.34	9.00	7.94	8.00	1.40	1.00	7.67	7.00	7.67	....	40.00	6031
3.43	3.29	8.99	9.00	7.97	8.00	1.02	1.00	7.01	7.00	7.01	....	40.00	6259
3.66	3.29	9.44	9.00	8.52	8.00	0.92	1.00	6.94	7.00	6.94	....	39.00	5973
1.85	1.65	11.51	10.00	9.47	9.00	2.04	1.00	3.16	3.00	3.16	....	30.00	6293

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6175	V-C Fish and Potash Compound.....	Bickerstaff-Todd, New Sheffield.....
7564	V-C Fish and Potash Compound.....	Bickerstaff-Todd, New Sheffield.....
6941	V-C Fish and Potash Compound.....	R. H. Goldstrolm, Echo.....
6104	V-C Fish and Potash Compound.....	J. W. Johnson & Son, Albion.....
7410	V-C Fish and Potash Compound.....	Joe London, Cloe.....
5228	V-C Fish and Potash Compound.....	G. L. Shugarts, Brookville.....
6924	V-C Fish and Potash Compound.....	W. F. Tittle, Latrobe.....
5972	V-C Game Cock Brand.....	West Apollo Milling Co., Apollo.....
5765	V-C Good Luck Fertilizer.....	John D. Arey, Dushore.....
7047	V-C Good Luck Fertilizer.....	Wm. B. Deihl, Lehighton.....
6940	V-C Good Luck Fertilizer.....	R. H. Goldstrolm, Echo.....
6260	V-C Good Luck Fertilizer.....	E. J. Hite, Hollidaysburg.....
5220	V-C Good Luck Fertilizer.....	Lehighton Hardware Co., Lehighton.....
5970	V-C Good Luck Fertilizer.....	West Apollo Milling Co., Apollo.....
5766	V-C Indian Brand Fertilizer.....	John D. Arey, Dushore.....
6034	V-C Indian Brand Fertilizer.....	B. J. Crisman, Factoryville.....
7314	V-C Indian Brand Fertilizer.....	Wm. B. Deihl, Lehighton.....
5219	V-C Indian Brand Fertilizer.....	Lehighton Hardware Co., Lehighton.....
5230	V-C Indian Brand Fertilizer.....	G. L. Shugarts, Brookville.....
7313	V-C Owl Brand Fertilizer.....	Wm. B. Deihl, Lehighton.....
7461	V-C Owl Brand Fertilizer.....	Charles M. Harter, Wapwallopen.....
7409	V-C Owl Brand Fertilizer.....	Joe London, Cloe.....
5919	V-C Owl Brand Fertilizer.....	Charles Schall, Northampton.....
6291	V-C Plow Brand Fertilizer.....	H. C. Beerits Sons, Somerset.....
7048	V-C Plow Brand Fertilizer.....	Wm. B. Deihl, Lehighton.....
6037	V-C Plow Brand Fertilizer.....	Jackson & Hortman, Hop Bottom.....
5221	V-C Plow Brand Fertilizer.....	Lehighton Hardware Co., Lehighton.....
6116	V-C Plow Brand Fertilizer.....	G. W. Radle, Mt. Union.....
6925	V-C Plow Brand Fertilizer.....	W. F. Tittle, Latrobe.....
6369	V-C Prolific Crop Grower.....	A. L. Cowan, Brookville.....
7315	V-C Prolific Crop Grower.....	Wm. B. Deihl, Lehighton.....
5218	V-C Prolific Crop Grower.....	Lehighton Hardware Co., Lehighton.....
6297	V-C Star Brand Fertilizer.....	Berlin Feed Co., Berlin.....
6942	V-C Star Brand Fertilizer.....	R. H. Goldstrolm, Echo.....
5217	V-C Star Brand Fertilizer.....	Lehighton Hardware Co., Lehighton.....
6447	V-C Star Brand Fertilizer.....	McConnell Brothers, Hughesville.....
6765	V-C Star Brand Fertilizer.....	G. W. Radle, Mt. Union.....
6368	V-C Tip Top Top Dresser.....	A. L. Cowan, Brookville.....
WASHINGTON, ALEXANDER & COOKE CO., AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL CORPORA- TION, CHARLESTOWN, W. VA.		
5331	Wacco Crop Grower.....	E. S. Kelly, Gettysburg.....
6890	Wacco Crop Grower.....	E. S. Kelly, Gettysburg.....
7208	Wacco Crop Grower.....	J. H. People, Mifflintown.....
6891	Wacco Fish and Potash.....	E. S. Kelly, Gettysburg.....
5332	Wacco Wheat, Corn and Oats Mixture.....	E. S. Kelly, Gettysburg.....
6893	Wacco Wheat, Corn and Oats Mixture.....	E. S. Kelly, Gettysburg.....
YORK CHEMICAL WORKS, YORK, PA.		
5652	2-12-4.....	Danville State Hospital, Danville.....
7501	2-12-4.....	H. N. Dilling, Martinsburg.....
6541	2-12-4.....	Fisher & Son Co., West Chester.....
6785	2-12-4.....	C. E. Frazier, Mill-Hall.....
7523	2-12-4.....	J. K. Lewis, Honey Brook.....
5867	2-12-4.....	Harry Pyle & Son, Chaddsford.....
7202	2-12-4.....	J. W. Seiber, McAllisterville.....
7519	4-8-7.....	Fisher Son Co., West Chester.....
6723	4-16-10.....	Emery Christman, Bernville.....
5224	4-16-10.....	George Wineberg, Big Run.....
7119	Garden Fertilizer.....	Moore Seed Co., Philadelphia.....
5096	General Crop.....	Charles Bard, Knobsville.....

## FERTILIZERS—Continued

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.74	1.65	11.25	10.00	9.25	9.00	2.00	1.00	3.36	3.00	3.36	....	32.50	6175
1.97	1.65	11.91	10.00	9.33	9.00	2.58	1.00	3.38	3.00	1.30	2.08	33.50	7564
1.72	1.65	11.01	10.00	9.11	9.00	1.90	1.00	3.13	3.00	3.13	....	30.00	6941
1.84	1.65	11.81	10.00	9.29	9.00	2.52	1.00	3.47	3.00	3.47	....	28.70	6104
1.83	1.65	12.48	10.00	9.74	9.00	2.74	1.00	3.47	3.00	1.30	2.17	24.85	7410
1.82	1.65	10.79	10.00	9.31	9.00	1.48	1.00	3.18	3.00	3.18	....	29.30	5228
1.71	1.65	10.59	10.00	9.13	9.00	1.46	1.00	3.10	3.00	3.10	....	28.00	6924
4.33	4.11	9.90	9.00	8.72	8.00	1.18	1.00	5.07	5.00	5.07	....	42.00	5972
2.38	2.47	11.38	11.00	10.20	10.00	1.18	1.00	6.06	6.00	6.06	....	....	5765
2.52	2.47	10.79	11.00	10.01	10.00	0.78	1.00	6.50	6.00	6.50	....	34.50	7074
2.68	2.47	11.48	11.00	10.48	10.00	1.00	1.00	*5.48	6.00	5.48	....	36.50	6940
2.79	2.47	11.76	11.00	10.76	10.00	1.00	1.00	6.04	6.00	6.04	....	37.00	6260
2.58	2.47	11.88	11.00	10.72	10.00	1.16	1.00	6.05	6.00	5.50	0.55	36.25	5220
2.81	2.47	11.80	11.00	10.84	10.00	0.96	1.00	6.08	6.00	6.08	....	38.00	5970
1.72	1.65	9.57	9.00	8.43	8.00	1.14	1.00	9.86	10.00	9.86	....	....	5766
1.91	1.65	9.21	9.00	8.57	8.00	0.64	1.00	10.75	10.00	10.75	....	35.00	6034
1.89	1.65	9.54	9.00	8.68	8.00	0.86	1.00	10.88	10.00	10.88	....	33.55	7314
1.76	1.65	8.98	9.00	7.90	8.00	1.08	1.00	11.06	10.00	11.06	....	35.00	5219
1.82	1.65	9.82	9.00	8.52	8.00	1.30	1.00	*9.65	10.00	9.65	....	35.05	5230
1.76	1.65	14.32	13.00	12.60	12.00	1.72	1.00	3.90	4.00	3.90	....	31.25	7313
1.94	1.65	13.39	13.00	12.25	12.00	1.14	1.00	4.09	4.00	4.09	....	31.25	7461
1.78	1.65	14.25	13.00	12.97	12.00	1.28	1.00	4.21	4.00	3.60	0.61	26.90	7409
1.76	1.65	13.75	13.00	12.41	12.00	1.34	1.00	4.14	4.00	4.14	....	29.53	5919
1.96	1.65	9.57	9.00	8.41	8.00	1.16	1.00	5.27	5.00	5.27	....	31.00	6291
1.73	1.65	9.57	9.00	8.95	8.00	0.62	1.00	5.04	5.00	5.04	....	28.65	7048
1.90	1.65	9.44	9.00	8.56	8.00	0.88	1.00	5.11	5.00	5.11	....	31.00	6037
1.87	1.65	8.95	9.00	8.25	8.00	0.70	1.00	5.49	5.00	5.49	....	30.00	5221
1.92	1.65	9.73	9.00	8.31	8.00	1.42	1.00	5.90	5.00	5.90	....	32.00	6116
1.72	1.65	9.96	9.00	9.00	8.00	0.96	1.00	*4.69	5.00	4.69	....	30.00	6925
3.35	3.29	13.52	13.00	12.70	12.00	0.82	1.00	4.00	4.00	4.00	....	38.00	6369
3.94	3.29	13.18	13.00	12.36	12.00	0.82	1.00	5.31	4.00	5.31	....	37.50	7315
3.45	3.29	13.30	13.00	12.10	12.00	1.20	1.00	4.57	4.00	4.00	0.57	38.85	5218
1.15	0.82	10.40	10.00	9.24	9.00	1.16	1.00	4.40	4.00	4.40	....	28.80	6297
0.96	0.82	10.89	10.00	9.33	9.00	1.56	1.00	4.39	4.00	4.39	....	27.00	6942
1.05	0.82	10.43	10.00	9.37	9.00	1.06	1.00	4.21	4.00	4.21	....	27.00	5217
1.16	0.82	11.10	10.00	9.84	9.00	1.26	1.00	4.42	4.00	4.42	....	27.15	6447
1.04	0.82	10.80	10.00	9.22	9.00	1.58	1.00	4.16	4.00	4.16	....	27.00	6765
*5.30	5.75	7.65	7.00	6.75	6.00	0.90	1.00	5.18	5.00	5.18	....	24.00	6368
1.77	1.65	8.46	8.00	7.92	8.00	0.54	....	5.93	5.00	5.93	....	28.75	5331
1.67	1.65	9.44	8.00	8.22	8.00	1.22	....	5.02	5.00	5.02	....	28.50	6890
1.83	1.65	9.13	8.00	8.19	8.00	0.94	....	5.35	5.00	5.35	....	....	7208
1.96	1.65	11.23	9.00	9.93	9.00	1.30	....	3.16	3.00	3.16	....	27.00	6891
1.05	0.82	9.85	9.00	9.45	9.00	0.40	....	5.32	4.00	5.32	....	26.00	5332
0.96	0.82	9.66	9.00	*8.74	9.00	0.92	....	4.08	4.00	4.08	....	25.00	6893
1.92	1.64	13.19	12.00	12.69	12.00	0.50	....	4.02	4.00	4.02	....	....	5652
1.71	1.64	13.56	12.00	13.22	12.00	0.34	....	4.10	4.00	4.10	....	31.00	7501
1.75	1.64	13.11	12.00	12.79	12.00	0.32	....	*3.71	4.00	3.71	....	32.55	6541
1.64	1.64	13.34	12.00	12.92	12.00	0.42	....	4.06	4.00	4.06	....	30.00	6785
1.69	1.64	13.41	12.00	12.95	12.00	0.46	....	4.25	4.00	4.25	....	30.00	7523
1.90	1.64	12.76	12.00	12.24	12.00	0.52	....	4.67	4.00	4.67	....	27.55	5867
1.77	1.64	12.93	12.00	12.33	12.00	0.60	....	4.74	4.00	4.74	....	27.85	7262
*2.74	3.28	9.82	8.00	9.34	8.00	0.48	....	7.76	7.00	7.76	....	42.00	7519
3.23	3.28	17.48	16.00	17.02	16.00	0.46	....	10.47	10.00	10.47	....	47.35	6723
3.57	3.28	16.58	16.00	16.14	16.00	0.44	....	11.12	10.00	11.12	....	51.75	5224
4.50	4.10	9.89	8.00	8.95	8.00	0.94	....	5.68	5.00	....	5.68	110.00	7119
2.67	2.46	10.33	10.00	10.03	10.00	0.30	....	4.73	4.00	4.73	....	32.25	5096

\*Deficient.

TABLE III—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6015	General Crop.....	B. W. Bedell, Mill City.....
6788	Grain Special.....	C. E. Frazier, Mill-Hall.....
6097	Grain Special.....	L. A. Glessman, Conneautville.....
7522	Grain Special.....	J. K. Lewis, Honey Brook.....
5227	Grain Special.....	George Wineberg, Big Run.....
6011	Potato and Truck.....	B. W. Bedell, Mill City.....
5213	Potato and Truck.....	Emery Christman, Bernville.....
5301	Potato and Truck.....	J. M. Snyder, Huntingdon.....
5223	Potato and Truck.....	George Wineberg, Big Run.....
7520	R. B. Special.....	Fisher & Son Co., West Chester.....
5192	R. B. Special.....	Union City Cooperative Association, Union City..
5095	Spring Special.....	Charles Bard, Knobsville.....
6012	Spring Special.....	B. W. Bedell, Mill City.....
6722	Spring Special.....	Emery Christman, Bernville.....
6542	Spring Special.....	Fisher & Son Co., West Chester.....
5225	Spring Special.....	George Wineberg, Big Run.....
5214	Standard.....	Emery Christman, Bernville.....
6725	Standard.....	Emery Christman, Bernville.....
6540	Standard.....	Fisher & Son Co., West Chester.....
6787	Standard.....	C. E. Frazier, Mill-Hall.....
7465	Standard.....	Henry Hartzell, Nescopeck.....
7231	Standard.....	Harry Pyle & Sons, Chaddsford.....
7209	Standard.....	J. W. Seiber, McAllisterville.....
5302	Standard.....	J. M. Snyder, Huntingdon.....
6783	Standard Potash.....	C. E. Frazier, Mill-Hall.....
7464	Standard Potash.....	Henry Hartzell, Nescopeck.....
5191	Standard Potash.....	Union City Cooperative Association, Union City..
6013	Top Dresser.....	B. W. Bedell, Mill City.....
		Average.....

## FERTILIZERS—Concluded

NITROGEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
2.44	2.46	10.78	10.00	10.22	10.00	0.56	.....	4.19	4.00	4.19	.....	37.00	6015
1.65	1.64	12.83	12.00	12.07	12.00	0.76	.....	2.54	2.00	2.54	.....	28.00	6788
1.88	1.64	13.10	12.00	12.64	12.00	0.46	.....	2.61	2.00	2.61	.....	33.60	6097
1.70	1.64	13.78	12.00	13.30	12.00	0.48	.....	2.53	2.00	2.53	.....	26.00	7522
1.73	1.64	12.78	12.00	12.36	12.00	0.42	.....	2.28	2.00	2.28	.....	30.55	5227
*3.74	4.10	8.60	8.00	8.18	8.00	0.42	.....	7.16	7.00	1.00	6.16	44.00	6011
4.08	4.10	8.89	8.00	8.67	8.00	0.22	.....	7.73	7.00	.....	7.73	.....	5213
4.10	4.10	9.02	8.00	8.82	8.00	0.20	.....	7.44	7.00	.....	7.44	42.00	5301
4.31	4.10	8.24	8.00	8.06	8.00	0.18	.....	7.91	7.00	.....	7.91	43.15	5223
1.94	1.64	13.56	12.00	11.08	10.00	2.48	2.00	4.71	4.00	.....	4.71	37.40	7520
1.77	1.64	11.88	12.00	10.42	10.00	1.46	2.00	4.02	4.00	.....	4.02	37.50	5192
1.85	1.64	8.46	8.00	8.24	8.00	0.22	.....	10.73	10.00	10.73	.....	31.80	5095
1.81	1.64	9.44	8.00	9.18	8.00	0.26	.....	10.48	10.00	10.48	.....	35.00	6012
1.92	1.64	9.39	8.00	8.95	8.00	0.44	.....	10.00	10.00	10.00	.....	28.95	6722
1.67	1.64	9.25	8.00	9.01	8.00	0.24	.....	10.42	10.00	10.42	.....	35.05	6542
1.89	1.64	9.31	8.00	9.05	8.00	0.26	.....	10.41	10.00	10.41	.....	34.80	5225
1.71	1.64	8.25	8.00	7.97	8.00	0.28	.....	5.54	5.00	5.54	.....	.....	5214
1.58	1.64	9.36	8.00	9.08	8.00	0.28	.....	4.95	5.00	4.95	.....	24.05	6725
1.65	1.64	9.36	8.00	8.96	8.00	0.40	.....	5.39	5.00	5.39	.....	30.60	6540
1.70	1.64	9.57	8.00	8.67	8.00	0.90	.....	4.94	5.00	4.94	.....	27.75	6787
1.53	1.64	9.26	8.00	8.84	8.00	0.42	.....	5.49	5.00	5.49	.....	31.00	7465
1.71	1.64	8.78	8.00	8.48	8.00	0.30	.....	5.91	5.00	5.91	.....	28.50	7231
1.48	1.64	9.82	8.00	9.36	8.00	0.46	.....	*4.66	5.00	4.66	.....	.....	7209
1.72	1.64	8.75	8.00	8.51	8.00	0.24	.....	5.36	5.00	5.36	.....	28.00	5302
1.00	0.82	9.41	9.00	9.25	9.00	0.16	.....	4.19	4.00	4.19	.....	24.50	6783
0.82	0.82	10.12	9.00	9.62	9.00	0.50	.....	4.21	4.00	4.21	.....	26.25	7464
0.96	0.82	9.63	9.00	9.37	9.00	0.26	.....	4.25	4.00	4.25	.....	27.00	5191
5.79	5.74	9.12	6.00	6.84	6.00	2.28	.....	5.78	5.00	5.78	.....	44.00	6013
2.10	.....	10.83	.....	10.06	.....	0.77	.....	5.71	.....	.....	.....	34.08	.....

\*Deficient.

TABLE IV—GROUND  
Furnishing Nitrogen

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
5566	Fine Ground Bone.....	Abington Lumber Co., Dalton.....
6410	Fine Ground Bone.....	Edward Baer, Connellsville.....
7554	Fine Ground Bone.....	H. F. Gelbach, Evans City.....
5291	Fine Ground Bone.....	Gump & Son, Everett.....
6746	Fine Ground Bone.....	H. T. Gump & Co., Everett.....
6241	Pure Raw Bone.....	David Leighty, Newery.....
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
6579	Armour's Big Crop Bone Meal.....	Farmers' Exchange, Sandy Lake.....
5451	Armour's Big Crop Bone Meal.....	A. J. Roat Supply Co., Kingston.....
6382	Armour's Big Crop Bone Meal.....	Seligman & Co., Inc., Tamaqua.....
5369	Armour's Big Crop Bone Meal.....	Smith Brothers, Ridgway.....
7099	Armour's Big Crop Raw Bone Meal.....	Kelly Feed Store, McKeesport.....
6009	Armour's Big Crop Raw Bone Meal.....	H. G. Lake, Montrose.....
	THE ASSOCIATED CHEMICAL CO., BALTIMORE, MD.	
5321	Pure Raw Bone.....	Firestone & Shillito, Dillsburg.....
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
6955	Baugh's Raw Bone Meal.....	Cooperative Grange Milling Co., Titusville.....
6219	Baugh's Raw Bone Meal.....	Orr & Grazier, Tyrone.....
5582	Baugh's Raw Bone Meal.....	Routh & Swartzle, Clearfield.....
5186	Baugh's Raw Bone Meal.....	Schrinner Brothers, Belle Valley.....
7126	Baugh's Raw Bone Meal.....	Hosea Waterer, Philadelphia.....
7150	Baugh's Raw Bone Meal.....	West Manheim Farmers' Association, Hanover.....
5446	Baugh's 3 and 50 Bone Meal.....	B. E. & J. T. Cokely, Scranton.....
5687	Baugh's 3 and 50 Bone Meal.....	W. C. Follmer, Benton.....
6264	Baugh's 3 and 50 Bone Meal.....	George H. Miller, Sidman.....
7398	Baugh's 3 and 50 Bone Meal.....	E. P. Wargo, Danville.....
	W. S. CAPLES & SON, JOHNSTOWN, PA.	
7478	Cambria's 2-50 Bone Meal.....	W. S. Caples & Son, Johnstown.....
	JACOB DOLD PACKING CO., BUFFALO, N. Y.	
7454	Dold Quality Bone Meal.....	J. B. Anderson Son, Shickshinny.....
6428	Dold Quality Bone Meal.....	Chaapels Seed Store, Williamsport.....
	FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.	
7227	Farmer's Bone Meal.....	Belleville Flour Mills, Belleville.....
6045	Farmer's Bone Meal.....	B. F. Horting, Newport.....
	GRIFFITH & BOYD CO., BALTIMORE, MD.	
6630	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.....	Hoburg Brothers, Etna.....
6401	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.....	Houck & Cherrington, Catawissa.....
5982	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.....	R. R. Martin, Saltsburg.....
6238	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.....	Stultz Brothers, Hollidaysburg.....
7492	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.....	A. F. Stutzman & Son, Johnstown.....
7282	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.....	W. M. Templeton & Sons, Houston.....

## BONE FERTILIZERS

## and Phosphoric Acid

		PHOSPHORIC ACID		Selling price per ton at place of selection	Chemist's number
Found	Guaranteed	Found	Guaranteed		
%	%	%	%	\$	
2.87	2.47	24.87	22.88	55.00	5566
2.37	2.47	26.23	22.88	49.15	6410
2.61	2.47	26.43	22.88	50.00	7554
2.49	2.47	25.95	22.88	64.00	5291
2.86	2.47	27.14	22.88	80.00	6746
4.08	3.70	22.09	20.60	48.00	6241
2.96	2.47	26.35	22.00	70.00	6579
2.87	2.47	26.61	22.00	61.50	5451
2.74	2.47	24.40	22.00	55.00	6382
2.95	2.47	22.50	22.00	65.00	5369
4.36	3.70	23.27	21.50	60.00	7099
4.47	3.70	21.38	21.50	56.00	6009
4.03	3.70	24.17	20.00	....	5321
4.37	3.70	23.34	21.50	58.00	6955
3.70	3.70	21.93	21.50	53.05	6219
4.24	3.70	23.79	21.50	55.00	5582
4.06	3.70	21.79	21.50	56.00	5186
3.88	3.70	22.51	21.50	80.00	7126
4.06	3.70	21.99	21.50	51.00	7150
2.86	2.47	25.01	23.00	55.00	5446
2.77	2.47	25.82	23.00	50.00	5687
2.99	2.47	25.26	23.00	....	6264
2.62	2.47	25.97	23.00	46.75	7398
1.80	1.65	30.28	23.00	42.00	7478
2.85	2.47	26.58	23.00	60.00	7454
2.67	2.47	29.13	23.00	55.00	6428
4.80	3.48	*20.50	22.00	52.00	7227
3.45	3.48	*20.80	22.00	48.70	6045
4.14	3.70	21.21	20.00	58.00	6630
4.17	3.70	23.00	20.00	52.25	6401
4.06	3.70	20.68	20.00	60.00	5982
4.14	3.70	20.15	20.00	60.00	6238
3.77	3.70	19.89	20.00	60.00	7492
3.85	3.70	21.12	20.00	54.00	7282

\*Deficient.

TABLE IV—GROUND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.</b>	
6028	Pure Ground Raw Bone.....	Gallagher & Stevick, Wilkes-Barre.....
6027	Steamed Bone Meal.....	Gallagher & Stevick, Wilkes-Barre.....
	<b>KOLLER FERTILIZER COMPANY, GLEN ROCK, PA.</b>	
7135	Koller's Old Process Bone Meal.....	Koller Fertilizer Company, Glen Rock.....
	<b>FRED. E. LORD, ESPY, PA.</b>	
7453	Bone Meal.....	Gibbs Milling Co., Nanticoke.....
5606	Bone Meal.....	Fred. E. Lord, Espy.....
	<b>THE MILLER FERTILIZER CO., BALTIMORE, MD.</b>	
5303	Pure Ground Raw Bone.....	Ross Goodman, Huntingdon.....
5387	Pure Ground Raw Bone.....	Herman Keebler, Montoursville.....
	<b>PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.</b>	
5237	Piedmont Raw Bone Meal.....	Ditz & Mooney, Clarion.....
	<b>F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.</b>	
6636	Royster's Fine Ground Bone Meal.....	Option Feed Co., Option.....
5565	Royster's Fine Ground Bone Meal.....	Summitt Farm Equipment Co., Clarks Summit....
5441	Royster's Fine Ground Bone Meal.....	Weeks Hardware Co., Scranton.....
5977	Royster's Raw Bone Meal.....	Parnassus Hardware Co., Parnassus.....
6459	Royster's Raw Bone Meal.....	W. A. Russell, Carbondale.....
	<b>STANDARD CHEMICAL WORKS, INC., READING, PA.</b>	
6535	Fine Bone Meal.....	Ben Lavan, Catawissa.....
6333	Fine Bone Meal.....	Murray Co., Honesdale.....
	<b>SUMMERS FERTILIZER CO., INC., BALTIMORE, MD.</b>	
6107	Summer's Best on Earth Steamed Bone 3-50.	L. A. Carlson, Warren.....
7311	Summer's Best on Earth Steamed Bone 3-50.	Freys Hardware Co., Muncy.....
	<b>SWIFT &amp; COMPANY, BALTIMORE, MD.</b>	
5743	Swift's Bone Meal Fertilizer.....	S. R. Kline, Benton.....
5718	Swift's 1 $\frac{1}{4}$ and 29 Bone Meal Fertilizer....	Fayette Feed Co., Fayette City.....
7096	Swift's 1 $\frac{1}{4}$ and 29 Bone Meal Fertilizer....	Hager Hardware Co., Sewickley.....
6091	Swift's 1 $\frac{1}{4}$ and 29 Bone Meal Fertilizer....	J. K. Vessey, Warren.....
6103	Swift's 1 $\frac{1}{4}$ and 29 Bone Meal Fertilizer....	West Side Feed & Fuel Co., Erie.....
	<b>I. P. THOMAS &amp; SON COMPANY, PHILADELPHIA, PA.</b>	
7007	Pure Ground Animal Bone.....	Farmers' Exchange, Clearfield.....
	<b>UNITED STATES GUANO COMPANY, BALTIMORE, MD.</b>	
6403	Standard United States Raw Bone Meal....	S. F. Rarig, Catawissa.....
	<b>VIRGINIA-CAROLINA CHEMICAL CORPORATION, NEW YORK, N. Y.</b>	
6450	Pure Raw Bone.....	McConnell Brothers, Hughesville.....
5366	Pure Raw Bone.....	Ritter's Mill, St. Marys.....
		Average.....

## BONE FERTILIZERS—Concluded

NITROGEN.		PHOSPHORIC ACID		Selling price per ton at place of selection	Chemist's number
Found	Guaranteed	Found	Guaranteed		
%	%	%	%	\$	
4.19	3.70	23.42	21.50	64.00	6028
2.76	2.47	25.67	22.88	58.00	6027
5.29	....	*18.39	22.00	43.50	7135
4.42	3.70	19.08	19.00	55.00	7453
4.40	3.70	19.68	19.00	45.00	5606
4.11	3.70	24.25	21.50	60.00	5303
4.22	3.70	22.76	21.50	55.00	5387
4.39	3.70	21.05	20.00	60.00	5237
3.06	2.47	26.43	22.90	49.15	6636
3.11	2.47	26.12	22.90	50.00	5565
3.09	2.47	26.57	22.90	80.00	5441
4.31	3.70	22.12	21.50	48.00	5977
4.24	3.70	21.80	21.50	55.00	6459
2.37	2.46	25.32	23.00	48.00	6535
*2.14	2.46	25.97	23.00	60.00	6333
3.77	2.46	25.10	22.89	54.00	6107
2.92	2.46	27.43	22.89	40.00	7311
2.60	2.47	23.92	24.00	47.00	5743
2.26	1.03	*28.45	29.00	48.65	5718
2.08	1.03	30.23	29.00	46.75	7096
2.17	1.03	*27.22	29.00	....	6091
2.10	1.03	*27.94	29.00	48.65	6103
4.18	3.70	21.56	21.00	63.00	7007
*2.66	3.70	23.22	22.00	....	6403
4.34	3.70	23.24	20.60	55.00	6450
4.35	3.70	22.13	20.60	54.35	5366
3.44	....	24.02	....	55.49	....

\*Deficient.

TABLE V—SUPER

Furnishing

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
5460	A. A. 16% Superphosphate.....	J. B. Anderson's Son, Shickshinny.....
5168	A. A. 16% Superphosphate.....	T. R. Bolton, Cochranon.....
5074	A. A. 16% Superphosphate.....	T. A. DeLong, Loganton.....
6777	A. A. 16% Superphosphate.....	T. A. DeLong, Loganton.....
5314	A. A. 16% Superphosphate.....	Dillsburg Grain & Milling Co., Dillsburg.....
7054	A. A. 16% Superphosphate.....	Ewing & Kinslce, Newton Hamilton.....
7536	A. A. 16% Superphosphate.....	Graham Brothers, Darlington.....
5294	A. A. 16% Superphosphate.....	Gump & Son, Everett.....
6747	A. A. 16% Superphosphate.....	H. T. Gump & Co., Everett.....
7027	A. A. 16% Superphosphate.....	James M. Hix, Hamburg.....
6902	A. A. 16% Superphosphate.....	Kelly & Shoemaker, Littlestown.....
6141	A. A. 16% Superphosphate.....	H. J. Klingler & Co., Butler.....
7078	A. A. 16% Superphosphate.....	I. W. Scott Co., Pittsburgh.....
5276	A. A. 16% Superphosphate.....	Sheehan Brothers, Landenberg.....
7246	A. A. 16% Superphosphate.....	Sheehan Brothers, Landenberg.....
6828	A. A. 16% Superphosphate.....	H. A. Snyder, Strawberry Ridge.....
6224	A. A. 16% Superphosphate.....	Waite & Burnham, Tyrone.....
7496	A. A. 16% Superphosphate.....	Waite & Burnham, Tyrone.....
5836	A. A. 16% Superphosphate.....	West Newton Milling Co., West Newton.....
5668	A. A. 16% Superphosphate.....	C. G. Yost, McEwensville.....
5167	A. A. 20% Superphosphate.....	T. R. Bolton, Cochranon.....
6682	A. A. 20% Superphosphate.....	E. O. Bowman, Smithfield.....
6776	A. A. 20% Superphosphate.....	T. A. DeLong, Loganton.....
5993	A. A. 20% Superphosphate.....	J. Harvey Miller, Ligonier.....
5818	A. A. 20% Superphosphate.....	Paul Neff, Alexandria.....
5783	A. A. 20% Superphosphate.....	A. H. White, Monroeton.....
5650	Bowker's 16% Superphosphate.....	R. S. Blaine, Turbotville.....
5306	Bowker's 16% Superphosphate.....	B. F. Fink, Huntingdon.....
7259	Bowker's 16% Superphosphate.....	C. S. Hunter Co., Washington.....
6934	Bowker's 16% Superphosphate.....	Johnson & Byer Co., Rural Valley.....
6155	Bowker's 16% Superphosphate.....	I. G. Studebaker, Enon Valley.....
6653	E. Frank Coe's 16% Superphosphate.....	W. P. Lauster, Rural Valley.....
6937	E. Frank Coe's 16% Superphosphate.....	W. P. Lauster, Rural Valley.....
6626	E. Frank Coe's 16% Superphosphate.....	The I. W. Scott Co., Pittsburgh.....
5284	Hess Special High Grade Superphosphate.....	J. E. Jackson, Everett.....
6749	Hess Special High Grade Superphosphate.....	J. E. Jackson, Everett.....
6435	Lister's High Grade Superphosphate.....	Charles A. B. Bower, Montgomery.....
7076	Lister's High Grade Superphosphate.....	Gregory & Kocher, Petersburg.....
5659	Lister's High Grade Superphosphate.....	Herman & Wetzel, Selingsgrove.....
6969	Lister's High Grade Superphosphate.....	Herman & Wetzel, Selingsgrove.....
5101	Lister's High Grade Superphosphate.....	M. H. Hollingshead, Harrisonville.....
5992	Lister's High Grade Superphosphate.....	J. Harvey Miller, Ligonier.....
6580	Lister's High Grade Superphosphate.....	Morrow & Buxton, Valencia.....
5325	Lister's High Grade Superphosphate.....	W. H. Stock, New Oxford.....
5298	Patapsco High Grade Superphosphate.....	Francis Baker, Everett.....
5634	Patapsco High Grade Superphosphate.....	John P. Walter, Vicksburg.....
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
6859	Armour's Big Crop Fertilizers 16% Acid Phosphate.....	D. Luther Bogenrief, Mifflinburg.....
7195	Armour's Big Crop Fertilizers 16% Acid Phosphate.....	Bradford Co., Center Hall.....
6148	Armour's Big Crop Fertilizers 16% Acid Phosphate.....	W. K. Davis, Darlington.....
6677	Armour's Big Crop Fertilizers 16% Acid Phosphate.....	W. H. Dunlap, Jr., Cannonsburg.....
5405	Armour's Big Crop Fertilizers 16% Acid Phosphate.....	Eulalia Milling Co., Coudersport.....
6918	Armour's Big Crop Fertilizers 16% Acid Phosphate.....	A. H. Klugh, New Kensington.....
7493	Armour's Big Crop Fertilizers 16% Acid Phosphate.....	Orr & Grazier, Tyrone.....

## PHOSPHATE FERTILIZERS

## Phosphoric Acid

PHOSPHORIC ACID						Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble			
Found.	Guaranteed.	Found.	Guaranteed.	Found	Guaranteed		
%	%	%	%	%	%	\$	
17.27	16.50	16.23	16.00	1.04	0.50	19.85	5460
17.57	16.50	16.73	16.00	0.84	0.50	21.00	5168
17.48	16.50	16.40	16.00	1.08	0.50	20.50	5074
18.11	16.50	17.07	16.00	1.04	0.50	20.40	6777
18.04	16.50	17.14	16.00	0.90	0.50	20.25	5314
18.37	16.50	17.25	16.00	1.12	0.50	21.00	7054
18.67	16.50	17.39	16.00	1.28	0.50	23.00	7536
18.33	16.50	17.37	16.00	0.96	0.50	21.50	5294
18.19	16.50	17.11	16.00	1.08	0.50	21.50	6747
18.83	16.50	17.75	16.00	1.08	0.50	...	7027
18.32	16.50	17.44	16.00	0.88	0.50	19.00	6902
17.42	16.50	16.88	16.00	0.54	0.50	23.00	6141
18.53	16.50	17.15	16.00	1.38	0.50	20.95	7078
17.90	16.50	16.88	16.00	1.02	0.50	18.25	5276
18.97	16.50	18.05	16.00	0.92	0.50	19.00	7246
18.43	16.50	17.45	16.00	0.98	0.50	19.55	6828
18.67	16.50	17.53	16.00	1.14	0.50	21.00	6224
18.70	16.50	17.94	16.00	0.76	0.50	20.50	7496
18.32	16.50	16.92	16.00	1.40	0.50	21.05	5836
17.95	16.50	17.09	16.00	0.86	0.50	19.50	5668
21.33	20.00	20.39	20.00	0.94	...	25.30	5167
23.18	20.50	22.14	20.00	1.04	0.50	27.50	6682
21.52	20.50	21.20	20.00	0.32	0.50	25.00	6776
22.07	20.50	20.81	20.00	1.26	0.50	28.00	5993
22.71	20.50	22.23	20.00	0.48	0.50	...	5818
21.46	20.50	21.30	20.00	0.16	0.50	25.00	5783
18.29	16.50	17.45	16.00	0.84	0.50	20.00	5650
18.34	16.50	17.04	16.00	1.30	0.50	19.10	5306
19.47	16.50	18.29	16.00	1.18	0.50	20.95	7259
18.01	16.50	16.97	16.00	1.04	0.50	21.00	6934
18.20	16.50	17.02	16.00	1.18	0.50	...	6155
17.68	16.50	17.02	16.00	0.66	0.50	21.50	6653
18.50	16.50	17.62	16.00	0.88	0.50	21.00	6937
18.24	16.50	17.00	16.00	1.24	0.50	23.50	6626
17.86	16.50	16.96	16.00	0.90	0.50	21.50	5284
18.42	16.50	17.36	16.00	1.06	0.50	21.50	6749
18.50	16.50	17.56	16.00	0.94	0.50	20.00	6435
18.45	16.50	17.29	16.00	1.16	0.50	21.00	7076
17.65	16.50	16.65	16.00	1.00	0.50	20.20	5659
17.87	16.50	16.99	16.00	0.88	0.50	21.00	6969
17.60	16.50	16.70	16.00	0.90	0.50	22.00	5101
17.81	16.50	16.45	16.00	1.36	0.50	20.00	5992
17.88	16.50	17.00	16.00	0.88	0.50	23.00	6580
17.92	16.50	16.82	16.00	1.10	0.50	19.50	5325
18.37	16.50	17.47	16.00	0.90	0.50	22.00	5298
18.04	16.50	17.14	16.00	0.90	0.50	20.50	5634
17.53	16.50	17.25	16.00	0.28	0.50	19.90	6859
17.22	16.50	16.84	16.00	0.38	0.50	19.50	7195
17.35	16.50	17.07	16.00	0.28	0.50	23.00	6148
18.06	16.50	17.66	16.00	0.40	0.50	20.80	6677
17.27	16.50	16.93	16.00	0.34	0.50	21.00	5405
17.16	16.50	16.74	16.00	0.42	0.50	23.00	6918
17.79	16.50	17.49	16.00	0.30	0.50	21.15	7493

TABLE V—SUPER

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5277	Armour's Big Crop Fertilizers 16% Acid Phosphate	Passmore Supply Co., Avondale
7414	Armour's Big Crop Fertilizers 16% Acid Phosphate	J. H. Sheffer Hardware, Knox
6233	Armour's Big Crop Fertilizers 16% Acid Phosphate	Elvin Shiver, Martinsburg
5110	Armour's Big Crop Fertilizers 16% Acid Phosphate	Strite & Eshelman, Greencastle
5746	Armour's Big Crop Fertilizers 16% Acid Phosphate	Roy H. Treasure, Benton
5504	Armour's Big Crop Fertilizers 20% Superphosphate	D. E. Bergstresser, Port Royal
7424	Armour's Big Crop Fertilizers 20% Superphosphate	A. J. Dean & Son, Hawthorn
6056	Armour's Big Crop Fertilizers 20% Superphosphate	Devling Brothers, Galetton
6678	Armour's Big Crop Fertilizers 20% Superphosphate	W. H. Dunlap, Jr., Cannonsburg
7278	Armour's Big Crop Fertilizers 20% Superphosphate	W. H. Dunlap, Jr., Cannonsburg
6919	Armour's Big Crop Fertilizers 20% Superphosphate	A. H. Klugh, New Kensington
6005	Armour's Big Crop Fertilizers 20% Superphosphate	H. G. Lake, Montrose
7543	Armour's Big Crop Fertilizers 20% Superphosphate	Moore & Moore, Portersville
6362	Armour's Big Crop Fertilizers 20% Superphosphate	Reynoldsville Hardware, Reynoldsville
5990	Armour's Big Crop Fertilizers 20% Superphosphate	L. B. Weller, Ligonier
BALTIMORE FERTILIZER CO., BALTIMORE, MD.		
5123	Honest 16% Acid Phosphate	Chambersburg Fertilizer Works, Chambersburg
6798	Honest 16% Acid Phosphate	Chambersburg Fertilizer Works, Chambersburg
BAUGH & SONS COMPANY, PHILADELPHIA, PA.		
5411	Baugh's 16% Acid Phosphate	Eulalia Milling Co., Coudersport
5732	Baugh's 16% Acid Phosphate	W. C. Follmer, Benton
5048	Baugh's 16% Acid Phosphate	E. B. Fritz & Son, Quarryville
6543	Baugh's 16% Acid Phosphate	Hoopes Lumber & Coal Co., Kennett Square
6420	Baugh's 16% Acid Phosphate	J. H. Laird, Wylandville
7422	Baugh's 16% Acid Phosphate	McEwen Hardware, New Bethlehem
6576	Baugh's 16% Acid Phosphate	J. H. McWhirter, Mercer
5643	Baugh's 16% Acid Phosphate	Mifflinburg Farmers Exchange, Inc., Mifflinburg
6269	Baugh's 16% Acid Phosphate	George H. Miller, Sidman
5410	Baugh's 20% Acid Phosphate	Eulalia Milling Co., Coudersport
5841	Baugh's 20% Acid Phosphate	Farmers' Exchange, Indiana
5731	Baugh's 20% Acid Phosphate	W. C. Follmer, Benton
5707	Baugh's 20% Acid Phosphate	West Manheim Farmers Association, Hanover
7050	Baughphos The Ideal 16% Superphosphate	P. J. Briggs, Mt. Union
6812	Baughphos The Ideal 16% Superphosphate	D. W. Faust & Son, Chambersburg
6703	Baughphos The Ideal 16% Superphosphate	W. C. Follmer, Benton
7276	Baughphos The Ideal 16% Superphosphate	J. H. Laird, Wylandville
7561	Baughphos The Ideal 16% Superphosphate	Midland Milling & Supply Co., Midland
7367	Baughphos The Ideal 16% Superphosphate	J. Harvey Miller, Ligonier
7238	Baughphos The Ideal 16% Superphosphate	Shortledge Brothers, West Grove
7506	Baughphos The Ideal 16% Superphosphate	J. F. Wineland, Curryville
7435	Baughphos The Ideal 20% Superphosphate	A. W. Eves, Millville
7368	Baughphos The Ideal 20% Superphosphate	J. Harvey Miller, Ligonier
7341	Baughphos The Ideal 20% Superphosphate	W. B. Tobias, Mohrsville

## PHOSPHATE FERTILIZERS—Continued

PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
Total.		Available.		Insoluble.			
Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	\$	
17.31	16.50	16.93	16.00	0.38	0.50	19.00	5277
17.68	16.50	17.16	16.00	0.52	0.50	21.00	7414
18.04	16.50	17.60	16.00	0.44	0.50	20.00	6233
16.46	16.50	16.00	16.00	0.46	0.50	19.60	5110
17.69	16.50	17.21	16.00	0.48	0.50	20.75	5746
22.07	20.50	21.73	20.00	0.34	0.50	29.00	5504
22.07	20.50	21.73	20.00	0.34	0.50	26.90	7424
19.68	20.50	*19.44	20.00	0.24	0.50	29.90	6056
21.02	20.50	20.82	20.00	0.20	0.50	23.90	6678
21.69	20.50	21.41	20.00	0.28	0.50	28.00	7278
21.84	20.50	21.54	20.00	0.30	0.50	28.00	6919
21.43	20.50	21.17	20.00	0.26	0.50	28.00	6005
22.55	20.50	22.21	20.00	0.34	0.50	27.00	7543
21.43	20.50	21.19	20.00	0.24	0.50	25.90	6362
21.56	20.50	21.26	20.00	0.30	0.50	27.00	5990
18.62	16.50	18.04	16.00	0.58	0.50	19.50	5123
18.80	16.50	18.38	16.00	0.42	0.50	.....	6798
18.08	16.00	16.82	16.00	1.26	.....	21.00	5411
17.73	16.00	16.81	16.00	0.92	.....	18.00	5732
18.62	16.00	17.52	16.00	1.10	.....	.....	5048
18.93	16.00	17.97	16.00	0.96	.....	18.60	6543
18.56	16.00	17.46	16.00	1.10	.....	23.00	6420
18.24	16.00	16.72	16.00	1.52	.....	21.50	7422
17.60	16.00	16.66	16.00	0.94	.....	23.00	6576
18.32	16.00	17.22	16.00	1.10	.....	19.75	5643
17.86	16.00	16.70	16.00	1.16	.....	.....	6269
20.92	20.00	20.56	20.00	0.36	.....	25.00	5410
21.20	20.00	20.90	20.00	0.30	.....	27.00	5841
20.86	20.00	20.32	20.00	0.54	.....	22.00	5731
21.21	20.00	20.91	20.00	0.30	.....	.....	5707
18.62	16.00	16.76	16.00	1.86	.....	22.00	7050
18.56	16.00	16.72	16.00	1.84	.....	19.50	6812
18.24	16.00	16.58	16.00	1.66	.....	22.00	6703
19.15	16.00	17.39	16.00	1.76	.....	23.00	7276
19.13	16.00	17.25	16.00	1.88	.....	21.50	7561
18.88	16.00	17.08	16.00	1.80	.....	22.00	7367
19.22	16.00	17.34	16.00	1.88	.....	20.00	7238
19.15	16.00	17.43	16.00	1.72	.....	22.15	7506
22.07	20.00	21.21	20.00	0.86	.....	24.41	7435
22.58	20.00	21.76	20.00	0.82	.....	28.00	7368
20.46	20.00	19.86	20.00	0.60	.....	.....	7341

\*Deficient.

TABLE V—SUPER

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5378	CARLISLE FERTILIZER WORKS, INC., CARLISLE, PA. Carlisle 16% Acid Phosphate.....	W. B. Barnitz, Carlisle.....
5489	CENTRAL CHEMICAL COMPANY, HAGERSTOWN, MD. Gro-All Dissolved Phosphate 16%.....	Francis Baker, Everett.....
6741	Gro-All Dissolved Phosphate 16%.....	Francis Baker, Everett.....
7505	Gro-All Dissolved Phosphate 16%.....	Brunbaugh & Nissley, Martinsburg.....
6707	Gro-All Dissolved Phosphate 16%.....	Central Chemical Company, Milton.....
5942	Gro-All Dissolved Phosphate 16%.....	Chester Grove, West Milton.....
5106	Gro-All Dissolved Phosphate 16%.....	Mercersburg Grain & Supply Co., Mercersburg.....
6498	Gro-All Dissolved Phosphate 16%.....	H. M. Mohler, Carrolltown.....
6824	Gro-All Dissolved Phosphate 16%.....	Strickler & Gillan, Greencastle.....
7215	Gro-All Dissolved Phosphate 16%.....	R. K. Yoder, Belleville.....
5758	CO-OPERATIVE G. L. F. EXCHANGE, INC., NEW YORK, N. Y. G. L. F. Acid Phosphate 16%.....	Dayton Milling Co., Towanda.....
6341	G. L. F. Acid Phosphate 16%.....	Honesdale G. L. F. Service, Honesdale.....
5193	G. L. F. Acid Phosphate 16%.....	Union City Cooperative Association, Union City..
5402	DELAWARE RIVER CHEMICAL WORKS, BALTIMORE, MD. Delaware River 16% Acid Phosphate.....	D. E. Goodenough, Coudersport.....
5499	EASTERN STATES FARMERS' EXCHANGE, SPRINGFIELD, MASS. Eastern States Acid Phosphate 16%.....	Frank Harris, East Waterford.....
5030	AMOS EBY & CO., LEAMAN PLACE, PA. Eby Superphosphate (Acid Phosphate).....	Amos Eby & Co., Leaman Place.....
5017	FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA. Acid Phosphate 16%.....	Farmers Fertilizer Works, Elizabethtown.....
7160	Acid Phosphate 16%.....	Farmers Fertilizer Works, Elizabethtown.....
5482	Acid Phosphate 16%.....	Ed. Furry, New Enterprise.....
5204	Acid Phosphate 16%.....	Howard S. Hartman, Hamburg.....
6871	Acid Phosphate 16%.....	George H. Steininger, Middleburg.....
7083	GRIFFITH & BOYD CO., BALTIMORE, MD. Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	Adams & Cunningham, Imperial.....
7184	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	A. M. Butler, Howard.....
7375	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	Dayton Milling Co., Dayton.....
5594	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	G. R. McGee, Big Run.....
5181	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	Mead & Bannister, North East.....
7252	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	Passmore & Co., Nottingham.....
7385	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	D. M. Reeder, Catawissa.....
5860	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	Shortlidge Brothers, West Grove.....
7491	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	A. F. Stutzman & Son, Johnstown.....
7283	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	W. M. Templeton & Son, Houston.....
5679	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate.....	A. J. Young, Benton.....

## PHOSPHATE FERTILIZERS—Continued.

PHOSPHORIC ACID						Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble			
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed		
%	%	%	%	%	%	\$	
17.60	16.50	16.72	16.00	0.88	0.50	....	5378
17.90	16.50	16.80	16.00	1.10	0.50	22.00	5489
18.24	16.50	16.70	16.00	1.54	0.50	22.00	6741
18.37	16.50	17.35	16.00	1.02	0.50	22.00	7505
17.88	16.50	17.36	16.00	0.52	0.50	19.53	6707
17.93	16.50	17.05	16.00	0.88	0.50	....	5942
17.71	16.50	17.25	16.00	0.46	0.50	....	5106
16.89	16.50	16.67	16.00	0.22	0.50	29.25	6498
18.22	16.50	17.48	16.00	0.74	0.50	19.00	6824
18.42	16.50	16.94	16.00	1.48	0.50	21.00	7215
18.28	16.50	17.18	16.00	1.10	0.50	....	5758
17.99	16.50	17.01	16.00	0.98	0.50	18.00	6341
17.71	16.50	16.95	16.00	0.76	0.50	19.00	5193
17.95	16.00	16.53	16.00	1.42	....	23.00	5402
17.64	16.50	17.16	16.00	0.48	0.50	20.50	5499
18.56	17.00	17.44	16.00	1.12	1.00	15.50	5030
17.79	16.00	17.69	16.00	0.10	....	18.00	5017
17.09	16.00	16.99	16.00	0.10	....	18.00	7160
17.41	16.00	17.23	16.00	0.18	....	19.45	5482
16.93	16.00	16.85	16.00	0.08	....	19.00	5204
16.84	16.00	16.76	16.00	0.08	....	20.00	6871
17.73	17.00	17.25	16.00	0.48	1.00	23.00	7083
18.38	17.00	18.26	16.00	0.12	1.00	....	7184
18.62	17.00	18.12	16.00	0.50	1.00	20.50	7375
18.52	17.00	18.36	16.00	0.16	1.00	20.50	5594
17.86	17.00	17.44	16.00	0.42	1.00	22.50	5181
18.11	17.00	17.65	16.00	0.46	1.00	20.00	7252
18.87	17.00	18.37	16.00	0.50	1.00	19.00	7385
18.09	17.00	17.81	16.00	0.28	1.00	19.00	5860
18.90	17.00	18.78	16.00	0.12	1.00	....	7491
18.39	17.00	17.97	16.00	0.42	1.00	20.95	7283
18.50	17.00	18.36	16.00	0.14	1.00	19.30	5679

TABLE V—SUPER

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	M. P. HUBBARD & COMPANY, INC., BALTIMORE, MD.	
6545	Hubbard's Dissolved Phosphate.....	Mackey & Yerkes, Oxford.....
	THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.	
6793	Hubbard's 16% Superphosphate.....	Clinton County Agricultural Extension Association, Lock Haven.....
5089	Hubbard's 16% Superphosphate.....	Clinton County Cooperative Association, Lock Haven.....
6513	Hubbard's 16% Superphosphate.....	Fry Milling Co., Cresson.....
6185	Hubbard's 16% Superphosphate.....	J. M. Hoagland Co., Sharon.....
7358	Hubbard's 16% Superphosphate.....	H. O. Kimmel, Shelocta.....
5241	Hubbard's 16% Superphosphate.....	John A. McGee Hardware, Clarion.....
7535	Hubbard's 16% Superphosphate.....	Petersburg Milling Co., Bessemer.....
5656	Hubbard's 16% Superphosphate.....	T. H. Speigelmire, Selinsgrove.....
6792	Hubbard's 20% Superphosphate.....	Clinton County Agricultural Extension Association, Lock Haven.....
5077	Hubbard's 20% Superphosphate.....	Clinton County Cooperative Association, Lock Haven.....
	INDEPENDENT MANUFACTURING CO., PHILADELPHIA, PA.	
5250	Independent's 16% Acid Phosphate.....	Great Valley Mills, Paoli.....
7236	Independent's 16% Acid Phosphate.....	Paoli Coal & Supply Co., Paoli.....
	INTERNATIONAL AGRICULTURAL CORPORATION, BUFFALO, N. Y.	
7542	International 16% Acid Phosphate (Superphosphate).....	Moore & Moore, Portersville.....
5532	International 16% Acid Phosphate (Superphosphate).....	Rumsey & Free, Westford.....
5541	International 20% Superphosphate.....	B. Corwin, Pleasantville.....
	THE JARECKI CHEMICAL CO., SANDUSKY, OHIO	
5176	Jarecki's 16% Acid Phosphate.....	J. L. Alcorn, Titusville.....
6680	Jarecki's 16% Acid Phosphate.....	J. K. Lawson, Washington.....
5547	Jarecki's 16% Acid Phosphate.....	C. Mitchell & Son, Millville.....
7326	Jarecki's 16% Acid Phosphate.....	W. W. Shoemaker, Walnutport.....
5175	Jarecki's 20% Superphosphate.....	J. L. Alcorn, Titusville.....
5799	Jarecki's 20% Superphosphate.....	Ed. Hess, Philipsburg.....
6318	Jarecki's 20% Superphosphate.....	Amby Hettler, Lehighton.....
6679	Jarecki's 20% Superphosphate.....	J. K. Lawson, Washington.....
7261	Jarecki's 20% Superphosphate.....	J. K. Lawson, Washington.....
	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.	
6602	16% Acid Phosphate.....	P. K. Smith, Nescopeck.....
	KEYSTONE GRANGE EXCHANGE, INC., HARRISBURG, PA.	
5232	Granger's 16% Acid Phosphate.....	Amos Beck, Reynoldsville.....
5724	Granger's 16% Acid Phosphate.....	R. H. Carson, Coal Center.....
6519	Granger's 16% Acid Phosphate.....	Wm. A. Farabaugh, Carrolltown.....
6880	Granger's 16% Acid Phosphate.....	Freemont Grange, Mt. Pleasant Mills.....
6217	Granger's 16% Acid Phosphate.....	Lynn H. Hall, Harrisburg.....
7191	Granger's 16% Acid Phosphate.....	Anna Sunday, Bellefonte.....
5727	Granger's 20% Acid Phosphate.....	R. H. Carson, Coal Center.....
6215	Granger's 20% Acid Phosphate.....	Lynn H. Hall, Harrisburg.....
6647	Granger's 20% Acid Phosphate.....	N. H. Sloan, Rural Valley.....
	KOLLER FERTILIZER COMPANY, GLEN ROCK, PA.	
5697	Koller's High Grade Superphosphate 16%...	Koller Fertilizer Company, Glen Rock.....
7134	Koller's High Grade Superphosphate 16%...	Koller Fertilizer Company, Glen Rock.....
7136	Koller's 20% Superphosphate.....	Koller Fertilizer Company, Glen Rock.....

## PHOSPHATE FERTILIZERS—Continued

PHOSPHORIC ACID						Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble			
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed		
%	%	%	%	%	%	\$	
17.37	16.50	17.29	16.00	0.08	0.50	19.00	6545
17.35	16.50	16.23	16.00	1.12	0.50	19.30	6793
17.73	16.50	17.17	16.00	0.56	0.50	19.75	5089
18.45	16.50	17.55	16.00	0.90	0.50	22.45	6513
16.68	16.50	16.16	16.00	0.52	0.50	22.00	6185
18.50	16.50	17.56	16.00	0.94	0.50	19.00	7358
17.11	16.50	16.35	16.00	0.76	0.50	20.00	5241
17.86	16.50	16.96	16.00	0.90	0.50	21.50	7535
17.78	16.50	16.72	16.00	1.06	0.50	.....	5656
21.71	20.50	21.29	20.00	0.42	0.50	23.35	6792
21.40	20.50	20.84	20.00	0.56	0.50	23.80	5077
18.06	17.00	17.86	16.00	0.20	1.00	18.00	5250
19.94	.....	17.72	16.00	2.22	.....	15.50	7236
18.45	17.00	17.51	16.00	0.94	1.00	23.00	7542
19.72	17.00	18.68	16.00	1.04	1.00	18.00	5532
22.27	21.00	21.05	20.00	1.22	1.00	33.00	5541
17.74	16.50	16.02	16.00	1.72	0.50	23.00	5176
17.73	16.50	17.39	16.00	0.34	0.50	21.05	6680
18.37	16.50	16.25	16.00	2.12	0.50	21.05	5547
17.86	16.50	17.06	16.00	0.80	0.50	19.35	7326
20.79	20.50	20.15	20.00	0.64	0.50	28.00	5175
21.65	20.50	21.37	20.00	0.28	0.50	25.40	5799
20.72	20.50	20.58	20.00	0.14	0.50	24.00	6318
22.32	20.50	22.10	20.00	0.22	0.50	25.40	6679
22.09	20.50	21.91	20.00	0.18	0.50	23.50	7261
18.42	17.00	17.38	16.00	1.04	1.00	.....	6602
17.73	16.50	16.93	16.00	0.80	0.50	20.00	5232
17.48	16.50	16.36	16.00	1.12	0.50	19.72	5724
18.57	16.50	17.09	16.00	1.48	0.50	18.00	6519
18.60	16.50	16.88	16.00	1.72	0.50	.....	6880
17.62	16.50	16.58	16.00	1.04	0.50	19.16	6217
17.02	16.50	16.80	16.00	0.22	0.50	18.75	7191
20.50	20.50	20.26	20.00	0.24	0.50	23.56	5727
21.02	20.50	20.50	20.00	0.52	0.50	23.00	6215
20.46	20.50	19.90	20.00	0.56	0.50	23.00	6647
17.68	16.50	17.60	16.00	0.08	0.50	18.00	5697
18.19	16.50	17.05	16.00	1.14	0.50	18.00	7134
18.91	20.50	*18.02	20.00	0.89	0.50	22.00	7136

\*Deficient.

TABLE V—SUPER

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>LANCASTER BONE FERTILIZER CO., INC., QUARRYVILLE, PA.</b>	
5064	Conestoga Brand Acid Phosphate.....	J. W. Condo, Mill-Hall.....
6915	Conestoga Brand Acid Phosphate.....	Firestone & Shillito, Dillsburg.....
6771	Conestoga Brand Acid Phosphate.....	George G. Grieb, Tylersville.....
5046	Conestoga Brand Acid Phosphate.....	Lancaster Bone Fertilizer Co., Inc., Quarryville....
5958	Conestoga Brand Acid Phosphate.....	George H. Steininger, Middleburg.....
6872	Conestoga Brand Acid Phosphate.....	George H. Steininger, Middleburg.....
	<b>LEBANON FERTILIZER WORKS, LEBANON, PA.</b>	
5057	Levan's 0-16-0 Superphosphate.....	A. L. Herr & Brother, Quarryville.....
6515	Levan's 0-16-0 Superphosphate.....	V. A. Huber, Patton.....
5209	Levan's 0-16-0 Superphosphate.....	James W. Rentschler, Hamburg.....
	<b>FRED E. LORD, ESPY, PA.</b>	
5604	Acid Phosphate.....	Fred E. Lord, Espy.....
6472	Acid Phosphate.....	Fred E. Lord, Espy.....
6981	Acid Phosphate.....	Fred E. Lord, Espy.....
	<b>FREDERICK MEHRING FERTILIZER WORKS, INC., KEYMAR, MD.</b>	
5345	16% Acid Phosphate.....	L. B. Frohmyer, Littlestown.....
6905	16% Acid Phosphate.....	E. Charles Mathias & Son, Littlestown.....
	<b>THE MILLER FERTILIZER CO., BALTIMORE, MD.</b>	
5092	Miller's Superphosphate 16%.....	W. R. Black, Orbisonia.....
7181	Miller's Superphosphate 16%.....	M. C. Deitz's Sons, Mechanicsburg.....
7058	Miller's Superphosphate 16%.....	T. H. Donnelly, Water Street.....
6089	Miller's Superphosphate 16%.....	D. H. Gregory, Russell.....
7037	Miller's Superphosphate 16%.....	W. B. Hartman, Shoemakersville.....
5631	Miller's Superphosphate 16%.....	H. J. Lindner & Son, Pottsgrove.....
6698	Miller's Superphosphate 16%.....	H. J. Lindner & Son, Pottsgrove.....
7243	Miller's Superphosphate 16%.....	E. W. Rupert, Oxford.....
5144	Miller's Superphosphate 16%.....	Walker Brothers, Chambersburg.....
	<b>MORTON FERTILIZER CO., BALTIMORE, MD.</b>	
7060	Morton's 16% Acid Phosphate.....	H. O. Andrews & Sons, Mapleton Depot.....
7335	Morton's 16% Acid Phosphate.....	J. H. Loose, Berne.....
5616	Morton's 16% Acid Phosphate.....	H. B. Low & Son, Orangeville.....
7447	Morton's 16% Acid Phosphate.....	H. B. Low & Son, Orangeville.....
6443	Morton's 16% Acid Phosphate.....	McConnell Brothers, Hughesville.....
	<b>G. OBER &amp; SONS CO., BALTIMORE, MD.</b>	
5830	Ober's High Grade Acid Phosphate.....	P. J. Cox, Warriors Mark.....
6413	Ober's High Grade Acid Phosphate.....	R. K. Louck, Connellsville.....
6173	Ober's High Grade Acid Phosphate.....	Peter Shaffer & Sons, New Brighton.....
6897	Ober's High Grade Acid Phosphate.....	G. R. Thompson & Sons, Gettysburg.....
	<b>OYLER &amp; SPANGLER FERTILIZER WORKS, INC., GETTYSBURG, PA.</b>	
6473	O. & S. Sixteen Per cent.....	Bird Brothers, Meyersdale.....
5338	O. & S. Sixteen Per cent.....	Oyler & Spangler Fertilizer Works, Inc., Gettys- burg.....
7141	O. & S. Sixteen Per cent.....	J. W. Shaffer, Hanover.....
	<b>PATUXENT GUANO CO., BALTIMORE, MD.</b>	
5624	Patuxent High Grade Acid Phosphate 16%.....	F. M. Bitler, Danville.....
5130	Patuxent High Grade Acid Phosphate 16%.....	Chambersburg Grain Co., Chambersburg.....

## PHOSPHATE FERTILIZERS--Continued

PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
Total.		Available.		Insoluble.			
Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	\$	
17.74	17.00	17.54	16.00	0.20	1.00	20.50	5064
18.15	17.00	17.89	16.00	0.26	1.00	15.45	6915
17.67	17.00	17.13	16.00	0.54	1.00	29.20	6771
17.23	17.00	16.93	16.00	0.30	1.00	..	5046
17.25	17.00	16.85	16.00	0.40	1.00	20.00	5958
18.38	17.00	17.06	16.00	1.32	1.60	20.00	6872
17.69	17.00	17.19	16.00	0.50	1.00	..	5057
17.65	17.00	16.89	16.00	0.76	1.00	23.00	6515
17.86	17.00	17.22	16.00	0.64	1.00	20.00	5209
18.59	16.50	18.49	16.00	0.10	0.50	17.50	5604
18.73	16.50	18.67	16.00	0.06	0.50	17.70	6472
17.90	16.50	17.78	16.00	0.12	0.50	18.20	6981
18.15	17.00	17.25	16.00	0.90	1.00	18.00	5345
18.53	17.00	16.51	16.00	2.02	1.00	18.00	6905
18.39	16.50	17.87	16.00	0.52	0.50	23.00	5092
17.35	16.50	16.39	16.00	0.96	0.50	19.35	7181
18.08	16.50	17.24	16.00	0.84	0.50	..	7058
17.90	16.50	17.30	16.00	0.60	0.50	23.00	6089
17.18	16.50	16.32	16.00	0.86	0.50	18.78	7037
17.60	16.50	16.90	16.00	0.70	0.50	19.35	5631
17.78	16.50	17.02	16.00	0.76	0.50	19.25	6698
18.24	16.50	17.46	16.00	0.78	0.50	18.00	7243
18.27	16.50	17.77	16.00	0.50	0.50	....	5144
17.35	17.00	17.21	16.00	0.14	1.00	20.00	7060
17.58	17.00	17.44	16.00	0.14	1.00	..	7335
18.42	17.00	17.48	16.00	0.94	1.00	18.50	5616
17.35	17.00	17.17	16.00	0.18	1.00	19.00	7447
18.16	17.00	17.08	16.00	1.08	1.00	21.00	6443
19.58	17.00	18.54	16.00	1.04	1.00	....	5830
19.02	17.00	18.60	16.00	0.42	1.00	24.00	6413
18.62	17.00	18.16	16.00	0.46	1.00	22.00	6173
18.37	17.00	18.17	16.00	0.20	1.00	....	6897
17.68	16.50	17.18	16.00	0.50	0.50	21.25	6473
16.54	16.50	16.02	16.00	0.52	0.50	....	5338
17.81	16.50	17.47	16.00	0.34	0.50	....	7141
16.84	17.00	16.44	16.00	0.40	1.00	19.35	5624
17.35	17.00	16.61	16.00	0.74	1.00	19.50	5130

TABLE V—SUPER

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
<b>PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.</b>		
5236	Piedmont 16% Acid Phosphate.....	Ditz & Mooney, Clarion.....
6666	Piedmont 16% Acid Phosphate.....	Kline Grain Co., Shelocta.....
5622	Piedmont 16% Acid Phosphate.....	H. B. Low & Son, Orangeville.....
7441	Piedmont 16% Acid Phosphate.....	H. B. Low & Son, Orangeville.....
7420	Piedmont 16% Acid Phosphate.....	R. M. Plyler, Summerville.....
6764	Piedmont 16% Acid Phosphate.....	A. G. Smith, Mt. Union.....
5143	Piedmont 16% Acid Phosphate.....	Walker Brothers, Chambersburg.....
6821	Piedmont 16% Acid Phosphate.....	Walker Brothers, Chambersburg.....
6113	Piedmont 20% Acid Phosphate.....	J. G. Simpson, Huntingdon.....
6762	Piedmont 20% Acid Phosphate.....	A. G. Smith, Mt. Union.....
5142	Piedmont 20% Acid Phosphate.....	Walker Brothers, Chambersburg.....
<b>RASIN MONUMENTAL CO., SUBSIDI- ARY OF THE VIRGINIA-CAROLINA CHEMICAL CORPORATION, BALTIMORE, MD.</b>		
5533	Rasin's 16% Acid Phosphate.....	J. L. Alcorn, Titusville.....
5508	Rasin's 16% Acid Phosphate.....	W. W. Book, Port Royal.....
7196	Rasin's 16% Acid Phosphate.....	Bradford Co., Center Hall.....
5840	Rasin's 16% Acid Phosphate.....	J. I. Dummire, Marion Center.....
7290	Rasin's 16% Acid Phosphate.....	George S. Poust, Hughesville.....
6180	Rasin's 16% Acid Phosphate.....	J. S. Riley, New Castle.....
7014	Rasin's 16% Superphosphate.....	W. F. Uplinger, Reynoldsville.....
5514	Rasin's 20% Acid Phosphate.....	W. W. Book, Port Royal.....
7203	Rasin's 20% Acid Phosphate.....	W. W. Book, Port Royal.....
7291	Rasin's 20% Acid Phosphate.....	George S. Poust, Hughesville.....
6359	Rasin's 20% Acid Phosphate.....	W. F. Uplinger, Reynoldsville.....
<b>READING BONE FERTILIZER CO., READING, PA.</b>		
6638	Reading 16% Clear Acid Phosphate.....	Campbell Feed Co., Oakdale.....
7080	Reading 16% Clear Acid Phosphate.....	A. S. Campbell, Oakdale.....
6755	Reading 16% Clear Acid Phosphate.....	Claybaugh Mills, Everett.....
5102	Reading 16% Clear Acid Phosphate.....	Roy W. Layton, Warfordsburg.....
6589	Reading 16% Clear Acid Phosphate.....	J. M. Raisley, Butler.....
6162	Reading 16% Clear Acid Phosphate.....	G. L. Rice, Dallas.....
<b>ROBERT A. REICHARD, INC., ALLENTOWN, PA.</b>		
5427	Reichard's Famous 16% Acid Phosphate...	Dannis Strohl, Lehighton.....
<b>F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.</b>		
5473	Royster's 16% Acid Phosphate.....	A. B. Beach, New Enterprise.....
5531	Royster's 16% Acid Phosphate.....	Bovard Hardware Co., Atlantic.....
5720	Royster's 16% Acid Phosphate.....	Carmichaels Milling Co., Carmichaels.....
7263	Royster's 16% Acid Phosphate.....	Carmichaels Milling Co., Carmichaels.....
7248	Royster's 16% Acid Phosphate.....	Elwood R. Chambers, Elkview.....
6020	Royster's 16% Acid Phosphate.....	Marvin F. Cope, Berwick.....
6916	Royster's 16% Acid Phosphate.....	Firestone & Shillito, Dillsburg.....
6182	Royster's 16% Acid Phosphate.....	Greenville Coal & Ice Co., Greenville.....
7200	Royster's 16% Acid Phosphate.....	W. P. Hosterman, Spring Mills.....
6885	Royster's 16% Acid Phosphate.....	Milton O. Lauver, Mt. Pleasant Mills.....
5837	Royster's 16% Acid Phosphate.....	Loucks Hardware Co., Scottsdale.....
7511	Royster's 16% Acid Phosphate.....	R. C. McGee, Roaring Springs.....
6634	Royster's 16% Acid Phosphate.....	Option Feed Co., Option.....
6928	Royster's 16% Acid Phosphate.....	Frank G. Reamer Co., Greensburg.....
6427	Royster's 20% Acid Phosphate.....	Chaapels Seed Store, Williamsport.....
6183	Royster's 20% Acid Phosphate.....	Greenville Coal & Ice Co., Greenville.....
7437	Royster's 20% Acid Phosphate.....	O. O. Ortwine, Millville.....
7267	Royster's 20% Acid Phosphate.....	J. F. Patterson, Waynesburg.....
6458	Royster's 20% Acid Phosphate.....	W. A. Russell Carbondale.....

## PHOSPHATE FERTILIZERS—Continued.

PHOSPHORIC ACID						Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble			
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed		
%	%	%	%	%	%	\$	
16.52	17.00	15.92	16.00	0.60	1.00	21.00	5236
16.72	17.00	16.02	16.00	0.70	1.00	19.00	6666
16.97	17.00	16.59	16.00	0.38	1.00	18.50	5622
17.50	17.00	16.92	16.00	0.58	1.00	19.00	7441
18.39	17.00	17.33	16.00	1.06	1.00	18.50	7420
17.26	17.00	16.42	16.00	0.84	1.00	22.75	6764
16.58	17.00	16.10	16.00	0.48	1.00	....	5143
18.11	17.00	17.33	16.00	0.78	1.00	19.50	6821
21.15	21.00	20.63	20.00	0.52	1.00	....	6113
21.56	21.00	20.92	20.00	0.64	1.00	27.00	6762
19.97	21.00	*19.35	20.00	0.62	1.00	....	5142
18.50	17.00	17.82	16.00	0.68	1.00	23.00	5533
17.30	17.00	17.20	16.00	0.10	1.00	20.60	5508
19.20	17.00	18.18	16.00	1.02	1.00	19.50	7196
17.73	17.00	17.41	16.00	0.32	1.00	21.50	5840
19.45	17.00	18.47	16.00	0.98	1.00	15.45	7290
17.93	17.00	17.29	16.00	0.64	1.00	23.00	6180
18.13	17.00	16.65	16.00	1.48	1.00	22.00	7014
21.49	21.00	21.21	20.00	0.28	1.00	22.40	5514
22.18	21.00	21.38	20.00	0.80	1.00	24.65	7203
22.58	21.00	21.96	20.00	0.62	1.00	19.80	7291
21.57	21.00	20.97	20.00	0.60	1.00	26.50	6359
18.45	17.00	17.41	16.00	1.04	1.00	23.50	6638
18.70	17.00	17.96	16.00	0.74	1.00	23.00	7080
18.37	17.00	17.35	16.00	1.02	1.00	21.50	6755
17.39	17.00	16.67	16.00	0.72	1.00	21.00	5102
17.95	17.00	17.11	16.00	0.84	1.00	....	6589
18.57	17.00	18.09	16.00	0.48	1.00	16.05	6462
16.77	17.00	16.59	16.00	0.18	1.00	....	5427
17.05	16.50	16.13	16.00	0.92	0.50	23.64	5473
17.88	16.50	17.16	16.00	0.72	0.50	20.65	5531
17.22	16.50	16.08	16.00	1.14	0.50	24.00	5720
18.57	16.50	17.57	16.00	1.00	0.50	22.00	7263
17.65	16.50	16.55	16.00	1.10	0.50	19.00	7248
18.09	16.50	16.97	16.00	1.12	0.50	19.50	6020
18.25	16.50	17.15	16.00	1.10	0.50	....	6916
18.13	16.50	17.03	16.00	1.10	0.50	23.00	6182
18.71	16.50	17.89	16.00	0.82	0.50	20.00	7200
17.67	16.50	16.57	16.00	1.10	0.50	19.50	6885
18.50	16.50	16.98	16.00	1.52	0.50	24.00	5837
18.75	16.50	17.71	16.00	1.04	0.50	22.25	7511
18.34	16.50	17.08	16.00	1.26	0.50	21.55	6634
18.20	16.50	17.10	16.00	1.10	0.50	21.00	6928
21.60	20.50	20.46	20.00	1.14	0.50	25.00	6427
21.84	20.50	20.84	20.00	1.00	0.50	27.50	6183
23.39	20.50	22.67	20.00	0.72	0.50	26.00	7437
23.09	20.50	22.35	20.00	0.74	0.50	25.00	7267
21.26	20.50	20.30	20.00	0.96	0.50	26.00	6458

\*Deficient.

TABLE V—SUPER

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
<b>STANDARD CHEMICAL WORKS, INC., READING, PA.</b>		
7395	Standard Reading Clear Acid Phosphate...	Farmers Society of Equity, Sunbury.....
6070	Standard Reading Clear Acid Phosphate...	Frey Brothers, Muncy.....
6929	Standard Reading Clear Acid Phosphate...	S. T. Kunarr, Indiana.....
6336	Standard Reading Clear Acid Phosphate...	Murray Co., Honesdale.....
6735	Standard Reading Clear Acid Phosphate...	Northampton Cooperative Farmers, Inc., Nazareth
6756	Standard Reading Clear Acid Phosphate...	George Rohm, Breezewood.....
6504	Standard Reading Clear Acid Phosphate...	Wm. Westrick, Patton.....
7082	Standard 20% Acid Phosphate.....	Allegheny County Agricultural Cooperative As- sociation, Allison Park.....
6335	Standard 20% Acid Phosphate.....	Murray Co., Honesdale.....
<b>SUMMERS FERTILIZER CO., INC., BALTIMORE, MD.</b>		
6109	Summer's Beston Earth 16% Superphosphate.	L. A. Carlson, Warren.....
7310	Summer's Beston Earth 16% Superphosphate.	Freys Hardware Co., Muncy.....
7475	Summer's Beston Earth 16% Superphosphate.	Ralph M. Hosler, Berwick.....
<b>SWACKS FERTILIZER WORKS, DUBOIS, PA.</b>		
5523	Swack's Superphosphate 16%.....	Arthur S. Eiseman, Meadville.....
5372	Swack's Superphosphate 16%.....	E. A. Horton, Brockport.....
6137	Swack's Superphosphate 16%.....	P. J. Oesterling & Son, Butler.....
6526	Swack's Superphosphate 16%.....	L. A. Yeackley, Patton.....
6525	Swack's Acid Phosphate 20%.....	L. A. Yeackley, Patton.....
7487	Swack's Acid Phosphate 20%.....	L. A. Yeackley, Patton.....
<b>SWIFT &amp; COMPANY, BALTIMORE, MD.</b>		
6805	Swift's 16% Superphosphate (Acid Phosphate)	Chambersburg Grain Co., Chambersburg.....
6690	Swift's 16% Superphosphate (Acid Phosphate)	Arthur M. Foust, Danville.....
5738	Swift's 16% Superphosphate (Acid Phosphate)	S. R. Kline, Benton.....
5265	Swift's 16% Superphosphate (Acid Phosphate)	Harry T. McDewitt, Mendenhall.....
7560	Swift's 16% Superphosphate (Acid Phosphate)	Midland Milling & Supply Co., Midland.....
5071	Swift's 16% Superphosphate (Acid Phosphate)	A. C. Myers, Lock Haven.....
6797	Swift's 16% Superphosphate (Acid Phosphate)	A. C. Myers, Lock Haven.....
5097	Swift's 16% Superphosphate (Acid Phosphate)	W. H. Nesbit, McConnellsburg.....
7370	Swift's 16% Superphosphate (Acid Phosphate)	H. W. Richards, Murrysburg.....
7187	Swift's 16% Superphosphate (Acid Phosphate)	Darius Waite, Bellefonte.....
7270	Swift's 16% Superphosphate (Acid Phosphate)	Western Flour Co., Charleroi.....
5164	Swift's 20% Superphosphate (Acid Phosphate)	Acme Milling Co., Cochranton.....
5803	Swift's 20% Superphosphate (Acid Phosphate)	Ed. Hess, Philipsburg.....
7562	Swift's 20% Superphosphate (Acid Phosphate)	Midland Milling & Supply Co., Midland.....
5716	Swift's 20% Superphosphate (Acid Phosphate)	Western Flour Co., Charleroi.....
7271	Swift's 20% Superphosphate (Acid Phosphate)	Western Flour Co., Charleroi.....
<b>I. P. THOMAS &amp; SON COMPANY, PHILADELPHIA, PA.</b>		
5257	16% Acid Phosphate.....	Chester County Farm Bureau, West Chester.....
7381	16% Acid Phosphate.....	Danville State Hospital, Danville.....
5357	16% Acid Phosphate.....	Elk Co-operative Creamery, St. Marys.....
5682	16% Acid Phosphate.....	Preston Eves & Son, Millville.....
6696	16% Acid Phosphate.....	C. W. Thomas, Danville.....
7008	20% Acid Phosphate.....	Farmers' Exchange, Clearfield.....
5826	20% Acid Phosphate.....	James Markle, State College.....
<b>F. W. TUNNELL &amp; CO., INC., PHILADELPHIA, PA.</b>		
6035	16% Acid Phosphate.....	Jackson & Hortman, Hop Bottom.....
<b>UNITED STATES GUANO COMPANY, BALTIMORE, MD.</b>		
6475	Standard United States 16% Acid Phosphate	M. H. Arnold, Sand Patch.....
6064	Standard United States 16% Acid Phosphate	M. P. Close, Tioga.....
6606	Standard United States 16% Acid Phosphate	Neil S. Harrison, Forks.....
6971	Standard United States 16% Acid Phosphate	Neil S. Harrison, Forks.....

## PHOSPHATE FERTILIZERS—Continued

PHOSPHORIC ACID						Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble			
Found.	Guaranteed.	Found.	Guaranteed.	Found	Guaranteed		
%	%	%	%	%	%	\$	
17.81	17.00	17.65	16.00	0.16	1.00	16.80	7395
17.12	17.00	*15.44	16.00	1.68	1.00	19.50	6070
18.08	17.00	17.88	16.00	0.20	1.00	18.75	6929
18.29	17.00	16.57	16.00	1.72	1.00	20.00	6336
17.99	17.00	17.83	16.00	0.16	1.00	.....	6735
17.53	17.00	16.45	16.00	1.08	1.00	21.50	6756
17.14	17.00	16.64	16.00	0.50	1.00	19.25	6504
20.69	21.00	20.53	20.00	0.16	1.00	23.00	7082
21.43	21.00	20.67	20.00	0.76	1.00	25.00	6335
18.29	16.50	18.21	16.00	0.08	0.50	24.50	6109
16.89	16.50	16.79	16.00	0.10	0.50	19.50	7310
17.35	16.50	17.13	16.00	0.22	0.50	18.70	7475
18.64	16.50	17.88	16.00	0.76	0.50	21.50	5523
18.39	16.50	17.83	16.00	0.56	0.50	21.00	5372
17.99	16.50	17.45	16.00	0.54	0.50	23.00	6137
18.32	16.50	17.90	16.00	0.42	0.50	20.45	6526
21.32	20.50	21.26	20.00	0.06	0.50	23.40	6525
22.20	20.50	21.56	20.00	0.64	0.50	24.00	7487
17.93	16.00	17.09	16.00	0.84	.....	.....	6805
17.09	16.00	16.79	16.00	0.30	.....	18.50	6690
17.86	16.00	17.52	16.00	0.34	.....	20.60	5738
17.18	16.00	16.74	16.00	0.44	.....	19.00	5265
17.73	16.00	17.03	16.00	0.70	.....	21.50	7560
18.02	16.00	17.66	16.00	0.36	.....	19.50	5071
17.39	16.00	16.55	16.00	0.84	.....	.....	6797
17.58	16.00	16.76	16.00	0.82	.....	21.50	5097
17.99	16.00	17.55	16.00	0.44	.....	25.00	7370
17.73	16.00	17.39	16.00	0.34	.....	22.00	7187
18.46	16.00	17.80	16.00	0.66	.....	20.95	7270
21.12	20.00	20.22	20.00	0.90	.....	25.30	5164
20.58	20.00	19.96	20.00	0.62	.....	25.00	5803
22.59	20.00	21.85	20.00	0.74	.....	26.00	7562
21.91	20.00	21.09	20.00	0.82	.....	27.50	5716
22.76	20.00	22.00	20.00	0.76	.....	25.30	7271
17.91	17.00	17.61	16.00	0.30	1.00	16.80	5257
17.25	17.00	16.43	16.00	0.82	1.00	.....	7381
18.89	17.00	17.81	16.00	1.08	1.00	20.90	5357
18.88	17.00	17.94	16.00	0.94	1.00	19.50	5682
18.82	17.00	17.94	16.00	0.88	1.00	19.80	6696
21.81	20.00	21.01	20.00	0.80	.....	28.65	7008
22.28	20.00	21.06	20.00	1.22	.....	.....	5826
18.79	17.00	17.71	16.00	1.08	1.00	20.00	6035
18.75	16.50	18.67	16.00	0.08	0.50	16.40	6475
17.71	16.50	17.61	16.00	0.10	0.50	22.00	6064
18.20	16.50	18.14	16.00	0.06	0.50	16.00	6606
16.99	16.50	16.79	16.00	0.20	0.50	18.50	6971

\*Deficient.

TABLE V—SUPER

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
7167	Standard United States 16% Acid Phosphate	J. R. Rhoades, Quarryville.....
5243	Standard United States 16% Acid Phosphate	F. A. Showers, Clarion.....
6406	Standard United States 20% Acid Phosphate	Wm. Grant Beaver, Catawissa.....
7166	Standard United States 20% Acid Phosphate	J. R. Rhoades, Quarryville.....
VIRGINIA-CAROLINA CHEMICAL CORPORATION, NEW YORK, N. Y.		
6664	American 20% Acid Phosphate.....	Luther Bence, Dixonville.....
6106	V-C Phospho Tobacco.....	J. W. Johnson & Son, Albion.....
5774	V-C 16% Acid Phosphate.....	John D. Arey, Dushore.....
6176	V-C 16% Acid Phosphate.....	Bickerstaff-Todd, New Sheffield.....
7566	V-C 16% Superphosphate.....	Bickerstaff-Todd, New Sheffield.....
6366	V-C 16% Superphosphate.....	A. L. Cowan, Brookville.....
7049	V-C 16% Superphosphate.....	Wm. B. Deihl, Lehighton.....
5216	V-C 16% Superphosphate.....	Lehighton Hardware Co., Lehighton.....
6923	V-C 16% Superphosphate.....	W. F. Tittle, Latrobe.....
7423	V-C 20% Superphosphate.....	Anderson Hardware, New Bethlehem.....
6290	V-C 20% Superphosphate.....	H. C. Beerits Sons, Somerset.....
5817	V-C 20% Superphosphate.....	Norman Black, Alexandria.....
6365	V-C 20% Superphosphate.....	A. L. Cowan, Brookville.....
6672	V-C 20% Superphosphate.....	R. H. Goldstrom, Echo.....
6258	V-C 20% Superphosphate.....	E. J. Hite, Hollidaysburg.....
YORK CHEMICAL WORKS, YORK, PA.		
6017	16% Acid Phosphate.....	B. W. Bedell, Mill City.....
5653	16% Acid Phosphate.....	Danville State Hospital, Danville.....
6784	16% Acid Phosphate.....	C. E. Frazier, Mill-Hall.....
7524	16% Acid Phosphate.....	J. K. Lewis, Honey Brook.....
5889	16% Acid Phosphate.....	Red Lion Exchange, Red Lion.....
7190	16% Acid Phosphate.....	L. H. White, Bellefonte.....
5226	16% Acid Phosphate.....	George Wineberg, Big Run.....
5211	20% Acid Phosphate.....	Emery Christman, Bernville.....
6724	20% Acid Phosphate.....	Emery Christman, Bernville.....
6084	20% Acid Phosphate.....	Edinboro Cooperative Association, Edinboro.....
6786	20% Acid Phosphate.....	C. E. Frazier, Mill-Hall.....
6522	20% Acid Phosphate.....	Thomas G. Perry, Hollidaysburg.....
Average.....		
LIME PHOSPHATES		
THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.		
5651	Basic Lime Phosphate.....	R. S. Blaine, Turbotville.....
6843	Basic Lime Phosphate.....	R. S. Blaine, Turbotville.....
5073	Basic Lime Phosphate.....	T. A. DeLong, Loganton.....
6782	Basic Lime Phosphate.....	T. A. DeLong, Loganton.....
7527	Basic Lime Phosphate.....	Harvey Detwiler, Chester Springs.....
5289	Basic Lime Phosphate.....	Gump & Son, Everett.....
6748	Basic Lime Phosphate.....	H. T. Gump & Co., Everett.....
7025	Basic Lime Phosphate.....	James M. Hix, Hamburg.....
6288	Lister's Lime Phosphate.....	H. C. Beerits Sons, Somerset.....
5100	Lister's Lime Phosphate.....	M. H. Hollingshead, Harrisonville.....
5286	Lister's Lime Phosphate.....	J. E. Jackson, Everett.....
6751	Lister's Lime Phosphate.....	J. E. Jackson, Everett.....
5326	Lister's Lime Phosphate.....	W. H. Stock, New Oxford.....
BAUGH & SONS COMPANY, PHILADELPHIA, PA.		
7223	Baugh's Lime and Phosphate.....	Belleville Flour Mills, Belleville.....
7434	Baugh's Lime and Phosphate.....	A. W. Eves, Millville.....
6813	Baugh's Lime and Phosphate.....	D. W. Faust & Son, Chambersburg.....
7004	Baugh's Lime and Phosphate.....	Routch & Swartzle Hardware, Clearfield.....

## PHOSPHATE FERTILIZERS—Continued

PHOSPHORIC ACID						Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble			
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed		
%	%	%	%	%	%	\$	
17.76	16.50	17.56	16.00	0.20	0.50	....	7167
17.36	16.50	17.18	16.00	0.18	0.50	17.50	5243
20.15	20.50	19.91	20.00	0.24	0.50	19.25	6406
20.28	20.50	20.08	20.00	0.20	0.50	....	7166
21.61	21.00	21.09	20.00	0.52	1.00	25.00	6664
18.18	17.00	16.82	16.00	1.36	1.00	23.55	6106
18.53	17.00	17.11	16.00	1.42	1.00	19.50	5774
17.79	17.00	17.07	16.00	0.72	1.00	23.50	6176
19.13	17.00	17.89	16.00	1.24	1.00	23.50	7566
16.75	17.00	16.07	16.00	0.68	1.00	21.00	6366
18.97	17.00	18.33	16.00	0.64	1.00	20.00	7049
18.52	17.00	17.36	16.00	1.16	1.00	21.00	5216
19.01	17.00	17.19	16.00	1.82	1.00	22.00	6923
21.14	21.00	20.28	20.00	0.86	1.00	21.60	7423
21.46	21.00	21.28	20.00	0.18	1.00	26.00	6290
22.04	21.00	21.66	20.00	0.38	1.00	....	5817
21.69	21.00	21.19	20.00	0.50	1.00	25.00	6365
22.28	21.00	21.78	20.00	0.50	1.00	25.50	6672
22.04	21.00	21.74	20.00	0.30	1.00	26.00	6258
17.09	16.00	16.99	16.00	0.10	....	20.00	6017
17.53	16.00	17.03	16.00	0.50	....	....	5653
16.58	16.00	16.26	16.00	0.32	....	19.25	6784
17.54	16.00	16.68	16.00	0.86	....	18.00	7524
17.08	16.00	16.86	16.00	0.22	....	....	5389
18.04	16.00	17.74	16.00	0.30	....	19.00	7190
16.93	16.00	16.53	16.00	0.40	....	21.50	5226
23.00	20.00	22.54	20.00	0.46	....	....	5211
21.86	20.00	21.66	20.00	0.20	....	19.80	6724
21.05	20.00	20.81	20.00	0.24	....	26.50	6084
22.58	20.00	22.32	20.00	0.26	....	23.50	6786
21.98	20.00	21.80	20.00	0.18	....	24.50	6522
18.79	....	18.06	....	0.73	....	21.51	....
16.34	13.50	14.36	13.00	1.98	0.50	20.00	5651
15.59	13.50	13.43	13.00	2.16	0.50	20.00	6843
15.43	13.50	13.61	13.00	1.82	0.50	20.50	5073
16.32	13.50	13.90	13.00	2.42	0.50	20.50	6782
15.82	13.50	13.90	13.00	1.92	0.50	21.00	7527
15.00	13.50	13.00	13.00	2.00	0.50	22.50	5289
16.35	13.50	14.09	13.00	2.26	0.50	22.50	6748
15.64	13.50	13.64	13.00	2.00	0.50	....	7025
16.01	13.50	13.11	13.00	2.90	0.50	21.00	6288
16.16	13.50	13.78	13.00	2.38	0.50	22.00	5100
14.31	13.50	12.81	13.00	1.50	0.50	21.50	5286
16.28	13.50	13.76	13.00	2.52	0.50	27.50	6751
15.72	13.50	13.30	13.00	2.42	0.50	....	5326
15.56	13.00	14.34	13.00	1.22	....	21.00	7223
15.38	13.00	14.20	13.00	1.18	....	19.00	7434
15.46	13.00	13.70	13.00	1.76	....	20.00	6813
15.31	13.00	13.89	13.00	1.42	....	21.00	7004

TABLE V—SUPER

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	CARLISLE FERTILIZER WORKS, INC., CARLISLE, PA.	
5374	Carlisle 13% Lime Phosphate.....	W. B. Barnitz, Carlisle.....
	GRIFFITH & BOYD CO., BALTIMORE, MD.	
6081	Griffith & Boyd Co.'s Lime Phosphate....	J. S. Artley, Muney.....
6253	Griffith & Boyd Co.'s Lime Phosphate.....	Homer Dilling, Martinsburg.....
7428	Griffith & Boyd Co.'s Lime Phosphate....	N. A. Dinger, Hawthorn.....
	THE MILLER FERTILIZER CO., BALTIMORE, MD.	
7066	Miller's Lime and Phosphate 13%.....	Grain & Supply Co., Milroy.....
5281	Miller's Lime and Phosphate 13%.....	Roy W. Layton, Warfordsburg.....
6853	Miller's Lime and Phosphate 13%.....	H. J. Lindner & Son, Pottsgrove.....
	MORTON FERTILIZER CO., BALTIMORE, MD.	
6444	Morton's Lime Phosphate.....	McConnell Brothers, Hughesville.....
	PATUXENT GUANO CO., BALTIMORE, MD.	
7175	Patuxent Lime Phosphate.....	M. C. Deitz's Sons, Mechanicsburg.....
	RASIN MONUMENTAL CO., SUBSIDI- ARY OF THE VIRGINIA-CAROLINA CHEMICAL CORPORATION, NEW YORK, N. Y.	
5510	Rasin's Phospho Tobacco.....	W. W. Book, Port Royal.....
	STANDARD CHEMICAL WORKS, INC., READING, PA.	
5588	Standard Phospho Processed Lime.....	Mahoning Hardware, Punxsutawney.....
	VIRGINIA-CAROLINA CHEMICAL CORPORATION, BALTIMORE, MD.	
6114	V-C Phosphate and Lime Mixture.....	G. W. Radle, Mt. Union.....
6766	V-C Phosphate and Lime Mixture.....	G. W. Radle, Mt. Union.....
6289	V-C Phospho Tobacco.....	H. C. Becrits Sons, Somerset.....
6001	V-C Phospho Tobacco.....	Glenn E. Tingley, New Milford.....
	WASHINGTON, ALEXANDER & COOKE CO., AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL CORPORA- TION, CHARLESTOWN, W. VA.	
5334	Wacco Lime Phosphate Mixture.....	E. S. Kelly, Gettysburg.....
7207	Wacco Lime Phosphate Mixture.....	J. H. People, Mifflintown.....
		Average.....

## PHOSPHATE FERTILIZERS—Concluded

PHOSPHORIC ACID						Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble			
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed		
%	%	%	%	%	%	\$	
15.18	13.50	13.10	13.00	2.08	0.50	....	5374
15.43	14.00	13.79	13.00	1.64	1.00	21.00	6081
15.32	14.00	*12.62	13.00	2.70	1.00	40.00	6253
14.64	14.00	*12.70	13.00	1.94	1.00	21.45	7428
14.41	13.50	13.97	13.00	0.44	0.50	19.50	7066
14.44	13.50	14.06	13.00	0.38	0.50	21.00	5281
14.29	13.50	13.75	13.00	0.54	0.50	19.25	6853
17.22	15.00	16.16	14.00	1.06	1.00	21.00	6444
18.30	14.00	16.86	13.00	1.44	1.00	19.35	7175
14.06	14.00	13.76	13.00	0.30	1.00	22.00	5510
17.65	15.00	16.51	14.00	1.14	1.00	24.00	5588
14.95	14.00	12.83	13.00	2.12	1.00	22.00	6114
14.50	14.00	13.14	13.00	1.36	1.00	21.00	6766
14.38	14.00	14.02	13.00	0.36	1.00	24.00	6289
14.08	14.00	13.82	13.00	0.26	1.00	24.00	6001
12.25	14.00	*11.41	13.00	0.84	1.00	19.75	5334
15.56	14.00	13.78	13.00	1.78	1.00	19.00	7207
15.39	....	13.80	....	1.59	....	21.88	....

\*Deficient.

TABLE VI—ROCK AND  
Furnishing Phosphoric

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
6844	Bowker's Boss Mixture	R. S. Blaine, Turbotville
6933	Bowker's Boss Mixture	Johnson & Byer Co., Rural Valley
6324	Bowker's Boss Mixture	W. B. Kirkendall, Nescopeck
5501	Bowker's Boss Mixture	J. M. Peterson, Honey Grove
6584	Lister's Atlas Mixture	Morrow & Buxton, Valencia
5676	Lister's Atlas Mixture	Wm. S. Savidge, Turbotville
6833	Lister's Atlas Mixture	Wm. S. Savidge, Turbotville
5329	Lister's Atlas Mixture	W. H. Stock, New Oxford
7217	Lister's Atlas Mixture	R. K. Yoder, Belleville
5461	Victory Mixture	J. B. Anderson's Son, Shickshinny
7296	Victory Mixture	Charles A. B. Bower, Montgomery
5478	Victory Mixture	Frank Brumbaugh, New Enterprise
5058	Victory Mixture	John Greenleaf, Quarryville
6395	Victory Mixture	Neil S. Harrison, Forks
7026	Victory Mixture	James M. Hix, Hamburg
7063	Victory Mixture	John M. Musser, Mifflintown
6851	Victory Mixture	E. O. Seaman, Watsontown
7247	Victory Mixture	Sheehan Brothers, Landenburg
6226	Victory Mixture	Waite & Burnham, Tyrone
7499	Victory Mixture	Waite & Burnham, Tyrone
5351	XXX Mixture	Fryberg Roller Mills, Fryberg
7374	XXX Mixture	Rossmoyne Flouring Mill, Smicksburg
6225	XXX Mixture	Waite & Burnham, Tyrone
5834	XXX Mixture	West Newton Milling Co., West Newton
5940	XXX Mixture	Wolfe & Huffman, Watsontown
5777	XXX Mixture	A. E. Woodruff & Son, Wyson
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
5762	Armour's Big Crop Fertilizers 0-10-4	Humphrey Manufacturing Co., Dushore
6279	Armour's Big Crop Fertilizers 0-10-10	H. C. Beerits Sons, Somerset
5486	Armour's Big Crop Fertilizers 0-10-10	H. L. King, New Enterprise
7412	Armour's Big Crop Fertilizers 0-10-10	J. H. Sheffer Hardware, Knox
7194	Armour's Big Crop Fertilizers 0-12-5	Bradford Co., Center Hall
5431	Armour's Big Crop Fertilizers 0-12-5	Adam W. Eckhart, Lehighton
6866	Armour's Big Crop Fertilizers 0-12-5	Chester Grove, West Milton
7366	Armour's Big Crop Fertilizers 0-12-5	Kline Grain Co., Shelocta
5245	Armour's Big Crop Fertilizers 0-12-5	M. J. Schill & Co., Marble
7411	Armour's Big Crop Fertilizers 0-12-5	J. H. Sheffer Hardware, Knox
5747	Armour's Big Crop Fertilizers 0-12-5	Roy H. Treasure, Benton
	BALTIMORE FERTILIZER WORKS, BALTIMORE, MD.	
5118	Honest 12-5	Chambersburg Fertilizer Works, Chambersburg
6799	Honest 12-5	Chambersburg Fertilizer Works, Chambersburg
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
5755	Baugh's 10 and 4 Phosphate and Potash Mixture	Ralph Fuller, Turbotville
6344	Baugh's 10 and 10 Phosphate and Potash Mixture	Baugh & Sons Co., Philadelphia
6740	Baugh's 10 and 10 Phosphate and Potash Mixture	Joel Kershner, Shartlesville
5437	Baugh's 10 and 10 Phosphate and Potash Mixture	W. B. Tobias, Mohrsville
5193	Baugh's 12 and 5 Phosphate and Potash Mixture	Francis Baker, Everett
6274	Baugh's 12 and 5 Phosphate and Potash Mixture	Barnett Brothers, Stoystown
7114	Baugh's 12 and 5 Phosphate and Potash Mixture	Baugh & Sons Co., Philadelphia

## POTASH FERTILIZERS

## Acid and Potash

PHOSPHORIC ACID						POTASH				Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble		Found	Guaranteed	Present as Muriate	Present as Sulphate.		
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed						
%	%	%	%	%	%	%	%	%	%	\$	
13.52	12.50	12.88	12.00	0.64	0.50	5.01	5.00	5.01	....	26.75	6844
12.67	12.50	12.19	12.00	0.48	0.50	5.34	5.00	5.34	....	28.00	6933
13.55	12.50	12.87	12.00	0.68	0.50	5.43	5.00	5.43	....	26.75	6324
12.88	12.50	12.46	12.00	0.42	0.50	5.14	5.00	5.14	....	29.70	5501
13.61	12.50	13.23	12.00	0.38	0.50	5.12	5.00	5.12	....	31.50	6584
12.70	12.50	12.26	12.00	0.44	0.50	5.17	5.00	5.17	....	27.75	5676
12.91	12.50	12.19	12.00	0.72	0.50	5.36	5.00	5.36	....	26.75	6833
12.76	12.50	12.44	12.00	0.32	0.50	5.49	5.00	5.49	....	25.75	5329
12.76	12.50	12.04	12.00	0.72	0.50	5.27	5.00	5.27	....	25.35	7217
13.01	12.50	12.29	12.00	0.72	0.50	5.49	5.00	5.49	....	27.00	5461
13.09	12.50	12.67	12.00	0.42	0.50	5.39	5.00	5.39	....	26.85	7296
12.88	12.50	12.50	12.00	0.38	0.50	4.90	5.00	4.90	....	26.50	5478
12.65	12.50	12.21	12.00	0.44	0.50	5.21	5.00	4.50	0.71	....	5058
13.18	12.50	12.52	12.00	0.66	0.50	5.43	5.00	5.43	....	27.25	6395
13.48	12.50	12.76	12.00	0.72	0.50	5.53	5.00	5.53	....	....	7026
13.27	12.50	12.57	12.00	0.70	0.50	5.26	5.00	5.26	....	25.00	7063
13.39	12.50	12.73	12.00	0.66	0.50	5.26	5.00	5.26	....	....	6851
13.39	12.50	12.89	12.00	0.50	0.50	5.43	5.00	5.43	....	26.00	7247
13.29	12.50	12.87	12.00	0.42	0.50	4.96	5.00	4.96	....	27.50	6226
13.75	12.50	13.21	12.00	0.54	0.50	5.28	5.00	5.28	....	27.50	7499
10.68	10.50	10.28	10.00	0.40	0.50	10.07	10.00	10.07	....	31.50	5351
10.91	10.50	9.99	10.00	0.92	0.50	10.43	10.00	10.43	....	29.00	7374
10.98	10.50	10.56	10.00	0.42	0.50	10.30	10.00	10.30	....	31.00	6225
11.35	10.50	10.81	10.00	0.54	0.50	10.56	10.00	10.56	....	30.65	5834
11.11	10.50	10.65	10.00	0.46	0.50	10.52	10.00	10.52	....	29.00	5940
10.91	10.50	10.25	10.00	0.66	0.50	9.83	10.00	9.83	....	30.00	5777
10.01	10.50	*9.71	10.00	0.30	0.50	4.05	4.00	4.05	....	26.00	5762
11.12	10.50	10.94	10.00	0.18	0.50	*9.69	10.00	9.69	....	31.00	6279
10.72	10.50	10.50	10.00	0.22	0.50	10.01	10.00	10.01	....	26.65	5486
11.15	10.50	11.03	10.00	0.12	0.50	*9.52	10.00	9.52	....	29.00	7412
12.68	12.50	12.56	12.00	0.12	0.50	5.78	5.00	5.78	....	24.95	7194
12.99	12.50	12.47	12.00	0.52	0.50	5.72	5.00	5.72	....	21.95	5431
13.06	12.50	12.82	12.00	0.24	0.50	4.88	5.00	4.88	....	27.00	6866
13.36	12.50	13.18	12.00	0.18	0.50	5.23	5.00	5.23	....	30.00	7366
12.37	12.50	12.03	12.00	0.34	0.50	5.30	5.00	5.30	....	28.00	5245
13.69	12.50	13.49	12.00	0.20	0.50	5.17	5.00	5.17	....	30.00	7411
12.68	12.50	12.24	12.00	0.44	0.50	5.35	5.00	5.35	....	27.50	5747
13.01	12.50	12.43	12.00	0.58	0.50	5.42	5.00	5.42	....	26.00	5118
13.83	12.50	12.99	12.00	0.84	0.50	5.05	5.00	5.05	....	....	6799
12.70	10.00	11.74	10.00	0.96	....	4.87	4.00	4.87	....	24.50	5755
10.97	10.00	10.01	10.00	0.96	....	*9.75	10.00	9.75	....	25.00	6344
11.31	10.00	10.37	10.00	0.94	....	9.88	10.00	9.88	....	27.50	6740
11.19	10.00	10.01	10.00	1.18	....	9.97	10.00	9.97	....	....	5437
12.37	12.00	11.87	12.00	0.50	....	5.65	5.00	5.65	....	....	5493
12.86	12.00	12.18	12.00	0.68	....	5.28	5.00	5.28	....	27.00	6274
13.52	12.00	12.34	12.00	1.18	....	5.36	5.00	5.36	....	....	7114

\*Deficient.

TABLE VI—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
7222	Baugh's 12 and 5 Phosphate and Potash Mixture.....	Belleville Flour Mills, Belleville.....
5140	Baugh's 12 and 5 Phosphate and Potash Mixture.....	D. W. Faust & Son, Chambersburg.....
6809	Baugh's 12 and 5 Phosphate and Potash Mixture.....	D. W. Faust & Son, Chambersburg.....
6200	Baugh's 12 and 5 Phosphate and Potash Mixture.....	Mifflinburg Farmers' Exchange, Inc., Mifflinburg..
7397	Baugh's 12 and 5 Phosphate and Potash Mixture.....	J. M. Schwartz, Urban.....
7507	Baugh's 12 and 5 Phosphate and Potash Mixture.....	J. F. Wineland, Curryville.....
<b>CENTRAL CHEMICAL COMPANY, HAGERSTOWN, MD.</b>		
5488	Gro-All Potash Special 0-12-5.....	Francis Baker, Everett.....
6742	Gro-All Potash Special 0-12-5.....	Francis Baker, Everett.....
7504	Gro-All Potash Special 0-12-5.....	Brumbaugh & Nissley, Martinsburg.....
5946	Gro-All Potash Special 0-12-5.....	Central Chemical Company, Milton.....
6711	Gro-All Potash Special 0-12-5.....	Central Chemical Company, Milton.....
5689	Gro-All Potash Special 0-12-5.....	Juniata County Grange, Port Royal.....
6823	Gro-All Potash Special 0-12-5.....	Strickler & Gillan, Greencastle.....
<b>AMOS EBY &amp; CO., LEAMAN PLACE, PA.</b>		
5029	Eby Farmers' Mixture.....	Amos Eby & Co., Leaman Place.....
7161	Eby Farmers' Mixture.....	Amos Eby & Co., Leaman Place.....
<b>FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.</b>		
6195	Farmer's Phosphate and Potash.....	F. T. Baker, Lewisburg.....
5016	Farmer's Phosphate and Potash.....	Farmers Fertilizer Works, Elizabethtown.....
7154	Farmer's Phosphate and Potash.....	Farmers Fertilizer Works, Elizabethtown.....
5203	Farmer's Phosphate and Potash.....	Jeremiah Kauffman, Berne.....
6869	Farmer's Phosphate and Potash.....	George H. Steininger, Middleburg.....
<b>W. C. FOLLIMER, BENTON, PA.</b>		
5733	12 and 5 Phosphate.....	W. C. Follmer, Benton.....
6974	12 and 5 Phosphate.....	W. C. Follmer, Benton.....
<b>GRIFFITH &amp; BOYD CO., BALTIMORE, MD.</b>		
6098	Griffith & Boyd Co.'s Monarch Brand.....	Alex. Hamilton, Venango.....
5647	Griffith & Boyd Co.'s Special Grain Grower.....	R. S. Blaine, Turbotville.....
6252	Griffith & Boyd Co.'s Special Grain Grower.....	Homer Dilling, Martinsburg.....
7427	Griffith & Boyd Co.'s Special Grain Grower.....	N. A. Dinger, Mayport.....
5593	Griffith & Boyd Co.'s Special Grain Grower.....	G. R. McGee, Big Run.....
7384	Griffith & Boyd Co.'s Special Grain Grower.....	D. M. Reeder, Catawissa.....
5795	Griffith & Boyd Co.'s Special Grain Grower.....	H. M. Smith, Bellefonte.....
6078	Griffith & Boyd Co.'s XX Potash Manure.....	J. S. Artley, Muncy.....
7378	Griffith & Boyd Co.'s XX Potash Manure.....	Dayton Milling Co., Dayton.....
6967	Griffith & Boyd Co.'s XX Potash Manure.....	Alex. Hamilton, Venango.....
5981	Griffith & Boyd Co.'s XX Potash Manure.....	R. R. Martin, Saltsburg.....
<b>THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.</b>		
6958	Hubbard's 12-5 Alkaline.....	J. L. Alcorn, Titusville.....
6794	Hubbard's 12-5 Alkaline.....	Clinton County Agricultural Extension Associa- tion, Lock Haven.....
5083	Hubbard's 12-5 Alkaline.....	Clinton County Cooperative Association, Lock Haven.....
7534	Hubbard's 12-5 Alkaline.....	Petersburg Milling Co., Bessemer.....
<b>INTERNATIONAL AGRICULTURAL CORPORATION, BUFFALO, N. Y.</b>		
5538	International New Process 0-10-4.....	B. Corwin, Pleasantville.....

## POTASH FERTILIZERS—Continued

PHOSPHORIC ACID						POTASH					
Total		Available		Insoluble		Found	Guaranteed	Present as Muriale	Present as Sulphate.	Selling price per ton at place of selection	Chemist's number
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed						
%	%	%	%	%	%	%	%	%	%	\$	
12.83	12.00	12.23	12.00	0.60	....	4.95	5.00	4.95	....	27.00	7222
12.83	12.00	12.55	12.00	0.28	....	5.10	5.00	5.10	....	21.00	5140
13.52	12.00	13.00	12.00	0.52	....	4.97	5.00	4.97	....	25.00	6809
13.09	12.00	12.31	12.00	0.78	....	*4.58	5.00	4.58	....	26.20	6200
13.98	12.00	12.94	12.00	1.04	....	5.21	5.00	5.21	....	24.80	7397
13.16	12.00	12.66	12.00	0.50	....	5.36	5.00	5.36	....	30.00	7507
12.63	12.50	11.83	12.00	0.80	0.50	5.00	5.00	5.00	....	23.00	5488
13.27	12.50	12.23	12.00	1.04	0.50	5.08	5.00	5.08	....	28.00	6742
14.16	12.50	13.24	12.00	0.92	0.50	4.87	5.00	4.87	....	28.45	7504
12.51	12.50	11.91	12.00	0.60	0.50	5.45	5.00	5.45	....	26.25	5946
13.11	12.50	12.49	12.00	0.62	0.50	*4.60	5.00	4.60	....	25.11	6711
12.25	12.50	12.01	12.00	0.24	0.50	5.37	5.00	5.37	....	....	5689
12.81	12.50	12.39	12.00	0.42	0.50	5.19	5.00	5.19	....	25.00	6823
13.61	13.00	12.69	12.00	0.92	1.00	*4.17	5.00	4.17	....	22.50	5029
13.52	13.00	12.42	12.00	1.10	1.00	5.04	5.00	5.04	....	....	7161
13.01	12.00	12.95	12.00	0.06	....	5.09	5.00	5.09	....	28.50	6195
12.85	12.00	12.65	12.00	0.20	....	5.64	5.00	5.64	....	25.00	5016
12.77	12.00	12.67	12.00	0.10	....	5.04	5.00	5.04	....	25.00	7154
12.69	12.00	12.63	12.00	0.06	....	5.12	5.00	5.12	....	27.50	5203
13.20	12.00	13.08	12.00	0.12	....	*4.65	5.00	4.65	....	27.00	6869
12.50	12.50	12.14	12.00	0.36	0.50	5.00	5.00	5.00	....	24.00	5733
14.92	12.50	13.88	12.00	1.04	0.50	5.47	5.00	5.47	....	24.00	6974
8.85	9.00	8.47	8.00	0.38	1.00	8.65	8.00	8.65	....	30.00	6098
12.12	13.00	*11.80	12.00	0.32	1.00	5.65	5.00	5.65	....	26.75	5647
12.63	13.00	12.29	12.00	0.34	1.00	5.48	5.00	5.48	....	26.50	6252
13.20	13.00	12.98	12.00	0.22	1.00	*4.78	5.00	4.78	....	27.00	7427
12.87	13.00	12.51	12.00	0.36	1.00	5.50	5.00	5.50	....	27.00	5593
12.22	13.00	11.94	12.00	0.28	1.00	5.97	5.00	5.97	....	24.75	7384
12.44	13.00	12.10	12.00	0.34	1.00	5.94	5.00	5.94	....	25.70	5795
10.46	11.00	10.06	10.00	0.40	1.00	5.53	5.00	5.53	....	27.75	6078
11.10	11.00	10.80	10.00	0.30	1.00	5.23	5.00	5.23	....	24.50	7378
11.53	11.00	11.09	10.00	0.44	1.00	5.23	5.00	5.23	....	27.00	6967
11.28	11.00	10.86	10.00	0.42	1.00	5.31	5.00	5.31	....	26.00	5981
11.05	12.50	*10.49	12.00	0.56	0.50	*4.57	5.00	4.57	....	29.50	6958
12.96	12.50	12.54	12.00	0.42	0.50	5.00	5.00	5.00	....	24.50	6794
12.68	12.50	12.34	12.00	0.34	0.50	5.31	5.00	5.31	....	25.20	5083
12.93	12.50	12.47	12.00	0.46	0.50	5.50	5.00	5.50	....	28.00	7534
10.84	11.00	10.16	10.00	0.68	1.00	4.34	4.00	4.34	....	32.75	5538

\*Deficient.

TABLE VI—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>J. &amp; J. GUANO COMPANY, YORK, PA.</b>	
7137	J. & J. Plant Invigorator .....	J. & J. Guano Co., York .....
	<b>THE JARECKI CHEMICAL CO., SANDUSKY, OHIO</b>	
7352	Jarecki's 0-12-5 Fertilizer .....	Farmers Exchange, Indiana .....
	<b>KEYSTONE GRANGE EXCHANGE, INC., HARRISBURG, PA.</b>	
6882	Granger's Superior .....	Freemont Grange, Mt. Pleasant Mills .....
6487	Granger's Superior .....	Lynn H. Hall, Harrisburg .....
	<b>KOLLER FERTILIZER COMPANY, GLEN ROCK, PA.</b>	
5696	Koller's Electric Phosphate .....	Koller Fertilizer Company, Glen Rock .....
7133	Koller's Electric Phosphate .....	Koller Fertilizer Company, Glen Rock .....
	<b>LANCASTER BONE FERTILIZER CO., QUARRYVILLE, PA.</b>	
6914	Conestoga Brand 12-5 .....	Firestone & Shillito, Dillsburg .....
6203	Conestoga Brand 12-5 .....	W. W. Kalb, Sunbury .....
5039	Conestoga Brand 12-5 .....	Lancaster Bone Fertilizer Company, Inc., Quarryville .....
7169	Conestoga Brand 12-5 .....	Lancaster Bone Fertilizer Company, Inc., Quarryville .....
6874	Conestoga Brand 12-5 .....	George H. Steininger, Middleburg .....
	<b>LEBANON FERTILIZER WORKS, LEBANON, PA.</b>	
5056	Levan's Naught-Ten-Five .....	A. L. Herr & Brother, Quarryville .....
	<b>FRED. E. LORD, ESPY, PA.</b>	
5601	Columbia County Fall Special .....	Fred. E. Lord, Espy .....
6980	Columbia County Fall Special .....	Fred. E. Lord, Espy .....
	<b>FREDERICK MEHRING FERTILIZER WORKS, INC., KEYMAR, MD.</b>	
5342	Mehring Special Pea Mixture .....	L. B. Frohmyer, Littlestown .....
5710	Potash Mixture .....	West Manheim Farmers Association, Hanover .....
	<b>THE MILLER FERTILIZER CO., BALTIMORE, MD.</b>	
5091	Miller's 4% Alkaline 10-4 .....	W. R. Black, Orbisonia .....
5645	Miller's 4% Alkaline 10-4 .....	R. S. Blaine, Turbotville .....
5282	Miller's 12-5 .....	Roy W. Layton, Warfordsburg .....
5149	Miller's 12-5 .....	Walker Brothers, Chambersburg .....
6817	Miller's 12-5 .....	Walker Brothers, Chambersburg .....
	<b>MORTON FERTILIZER CO., BALTIMORE, MD.</b>	
7449	Morton's Ten and Four .....	H. B. Low & Son, Orangeville .....
6446	Morton's Ten and Four .....	McConnell Brothers, Hughesville .....
7332	Morton's Twelve and Five .....	Allan G. Blatt, Bernville .....
5613	Morton's Twelve and Five .....	H. B. Low & Son, Orangeville .....
7446	Morton's Twelve and Five .....	H. B. Low & Son, Orangeville .....
	<b>G. OBER &amp; SONS CO., BALTIMORE, MD.</b>	
6154	Ober's Twelve and Five Potash Compound .....	Petersville Milling Co., Bessemer .....
	<b>OYLER &amp; SPANGLER FERTILIZER WORKS, INC., GETTYSBURG, PA.</b>	
5337	O. & S. Potash Special .....	Oyler & Spangler Fertilizer Works, Inc., Gettysburg .....

## POTASH FERTILIZERS—Continued

PHOSPHORIC ACID						POTASH				Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble				Present as Muriate	Present as Sulphate.		
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed						
%	%	%	%	%	%	%	%	%	%	\$	
14.22	10.50	13.26	10.00	0.96	0.50	5.14	4.00	5.14	....	....	7137
13.43	12.50	13.07	12.00	0.36	0.50	4.83	5.00	4.83	....	31.00	7352
13.01	12.50	12.49	12.00	0.52	0.50	5.04	5.00	5.04	....	....	6882
12.64	12.50	12.50	12.00	0.14	0.50	5.39	5.00	5.39	....	25.40	6487
14.03	12.50	13.59	12.00	0.44	0.50	5.12	5.00	5.12	....	24.00	5696
12.85	12.50	12.49	12.00	0.36	0.50	5.60	5.00	5.60	....	23.50	7133
12.73	13.00	12.43	12.00	0.30	1.00	4.89	5.00	4.89	....	21.25	6914
12.44	13.00	12.22	12.00	0.22	1.00	5.22	5.00	5.22	....	26.95	6203
12.37	13.00	12.19	12.00	0.18	1.00	5.09	5.00	5.09	....	....	5039
13.19	13.00	12.85	12.00	0.34	1.00	5.19	5.00	5.19	....	....	7169
13.14	13.00	12.00	12.00	1.14	1.00	5.23	5.00	5.23	....	27.00	6874
11.48	11.00	11.18	10.00	0.30	1.00	5.07	5.00	5.07	....	...	5056
13.30	12.50	12.52	12.00	0.78	0.50	5.36	5.00	5.36	....	22.00	5601
12.76	12.50	12.40	12.00	0.36	0.50	5.99	5.00	5.99	....	22.00	6980
13.05	13.00	12.31	12.00	0.74	1.00	10.20	10.00	10.20	....	26.00	5342
12.32	13.00	11.90	12.00	0.42	1.00	5.15	5.00	5.15	....	....	5710
11.29	10.50	10.83	10.00	0.46	0.50	4.04	4.00	4.04	....	27.00	5091
11.48	10.50	10.86	10.00	0.62	0.50	4.45	4.00	4.45	....	24.50	5645
12.49	12.50	12.09	12.00	0.40	0.50	5.44	5.00	5.44	....	28.50	5282
13.33	12.50	12.73	12.00	0.60	0.50	5.04	5.00	5.04	....	....	5149
13.37	12.50	12.83	12.00	0.54	0.50	5.10	5.00	5.10	....	25.50	6817
11.61	11.00	10.85	10.00	0.76	1.00	4.03	4.00	4.03	....	22.50	7449
10.84	11.00	10.20	10.00	0.64	1.00	*3.80	4.00	3.80	....	25.00	6446
13.22	13.00	12.44	12.00	0.78	1.00	5.08	5.00	5.08	....	23.30	7332
13.29	13.00	12.39	12.00	0.90	1.00	4.90	5.00	4.90	....	25.00	5613
12.95	13.00	12.35	12.00	0.60	1.00	5.05	5.00	5.05	....	25.00	7446
12.88	13.00	11.82	12.00	1.06	1.00	5.02	5.00	5.02	....	28.00	6154
12.50	12.50	12.18	12.00	0.32	0.50	4.88	5.00	4.88	....	....	5337

\*Deficient.

TABLE VI—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
<b>PATUXENT GUANO CO., BALTIMORE, MD.</b>		
5625	Patuxent Potash Mixture.....	F. M. Bitler, Danville.....
5129	Patuxent Potash Mixture.....	Chambersburg Grain Co., Chambersburg.....
6908	Patuxent Potash Mixture.....	Dillsburg Grain & Milling Co., Dillsburg.....
<b>PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.</b>		
5621	Piedmont Super Phosphate and Potash.....	H. B. Low & Son, Orangeville.....
7444	Piedmont Super Phosphate and Potash.....	H. B. Low & Son, Orangeville.....
5141	Piedmont Super Phosphate and Potash.....	Walker Brothers, Chambersburg.....
6822	Piedmont Super Phosphate and Potash.....	Walker Brothers, Chambersburg.....
<b>RASIN MONUMENTAL COMPANY, SUBSIDIARY OF THE VIRGINIA-CAROLINA CHEMICAL CORPORATION, NEW YORK, N. Y.</b>		
5813	Rasin's High Grade Potash Mixture.....	Bradford & Co., Center Hall.....
5878	Rasin's High Grade Potash Mixture.....	Oxford Grain & Hay Co., Oxford.....
7293	Rasin's High Grade Potash Mixture.....	George S. Poust, Hughesville.....
5732	Rasin's High Grade Potash Mixture.....	H. A. Snyder, Strawberry Ridge.....
<b>READING BONE FERTILIZER CO., READING, PA.</b>		
6463	High Grade Potash Mixture.....	G. L. Rice, Dallas.....
7342	High Grade Potash Mixture.....	Wm. Willits, Calcium.....
<b>ROBERT A. REICHARD, INC., ALLENTOWN, PA.</b>		
5424	Reichard's Famous 12-5.....	Dennis Strohl, Lehighton.....
<b>F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.</b>		
6019	Royster's 10-4 Phosphate and Potash.....	Marvin F. Cope, Berwick.....
6121	Royster's 10-4 Phosphate and Potash.....	John P. Fandel, Manns Choice.....
6768	Royster's 10-4 Phosphate and Potash.....	Glossner Brothers, Lock Haven.....
5985	Royster's 10-4 Phosphate and Potash.....	Marion Center Milling Co., Marion Center.....
6986	Royster's 10-10 Phosphate and Potash.....	W. A. Reed Estate, Paxinos.....
7455	Royster's 12-5 Phosphate and Potash.....	J. B. Andersons Son, Shickshinny.....
5470	Royster's 12-5 Phosphate and Potash.....	A. B. Beach, New Enterprise.....
7508	Royster's 12-5 Phosphate and Potash.....	R. C. McGee, Roaring Springs.....
7436	Royster's 12-5 Phosphate and Potash.....	O. O. Ortwine, Millville.....
<b>STANDARD CHEMICAL WORKS, INC., READING, PA.</b>		
6068	Standard Twelve and Five.....	Frey Brothers, Muncy.....
6930	Standard Twelve and Five.....	S. T. Kanarr, Indiana.....
6338	Standard Twelve and Five.....	Murray Company, Honesdale.....
6733	Standard Twelve and Five.....	Northampton Cooperative Farmers, Inc., Nazareth.....
6248	Standard Twelve and Five.....	Elvin Shriver, Martinsburg.....
<b>THE SUMMERS FERTILIZER COMPANY, INC., BALTIMORE, MD.</b>		
7476	Summer's Best on Earth 0-12-5 Fertilizer.....	Ralph M. Hosler, Berwick.....
<b>SWACK FERTILIZER WORKS, DUBOIS, PA.</b>		
7360	Swack's Phosphate and Potash 12-5.....	Kline Grain Co., Shelocta.....
7362	Swack's Ten-Ten.....	Kline Grain Co., Shelocta.....
6527	Swack's Ten-Ten.....	L. A. Yeckley, Patton.....
<b>SWIFT &amp; COMPANY, BALTIMORE, MD.</b>		
6804	Swift's Red Steer 0-12-5.....	Chambersburg Grain Co., Chambersburg.....
5434	Swift's Red Steer 0-12-5.....	Miles Degler, Bernville.....
6688	Swift's Red Steer 0-12-5.....	Arthur M. Foust, Danville.....
5737	Swift's Red Steer 0-12-5.....	S. R. Kline, Benton.....
5069	Swift's Red Steer 0-12-5.....	A. C. Myers, Lock Haven.....

## POTASH FERTILIZERS—Continued

PHOSPHORIC ACID						POTASH				Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble		Found	Guaranteed	Present as Muriate	Present as Sulphate.		
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed						
%	%	%	%	%	%	%	%	%	%	\$	
12.70	13.00	12.50	12.00	0.20	1.00	5.22	5.00	5.22	....	25.75	5625
13.19	13.00	12.45	12.00	0.74	1.00	5.39	5.00	5.39	....	26.00	5129
13.39	13.00	12.27	12.00	1.12	1.00	5.35	5.00	5.35	....	21.85	6908
13.01	13.00	11.95	12.00	1.06	1.00	5.41	5.00	5.41	....	25.00	5621
13.06	13.00	12.70	12.00	0.36	1.00	5.32	5.00	5.32	....	25.00	7444
12.50	13.00	12.04	12.00	0.46	1.00	5.08	5.00	5.08	....	....	5141
13.27	13.00	12.81	12.00	0.46	1.00	5.14	5.00	5.14	....	....	6822
13.14	13.00	12.26	12.00	0.88	1.00	5.14	5.00	5.14	....	25.85	5813
13.47	13.00	12.33	12.00	1.14	1.00	5.71	5.00	5.71	....	27.00	5878
14.14	13.00	12.58	12.00	1.56	1.00	5.16	5.00	5.16	....	21.05	7293
13.38	13.00	12.26	12.00	1.12	1.00	5.14	5.00	5.14	....	25.63	5752
13.62	13.00	12.86	12.00	0.76	1.00	*7.51	8.00	7.51	....	25.50	6463
13.46	13.00	12.74	12.00	0.72	1.00	8.29	8.00	8.29	....	33.00	7342
12.65	13.00	12.21	12.00	0.44	1.00	5.51	5.00	5.51	....	....	5424
11.68	10.50	10.50	10.00	1.18	0.50	4.19	4.00	4.19	....	27.20	6019
11.74	10.50	10.70	10.00	1.04	0.50	4.24	4.00	4.24	....	....	6121
11.57	10.50	10.35	10.00	1.22	0.50	4.16	4.00	4.16	....	....	6768
12.12	10.50	10.86	10.00	1.26	0.50	4.35	4.00	4.35	....	26.50	5985
11.76	10.50	10.74	10.00	1.02	0.50	10.26	10.00	10.26	....	30.00	6986
13.02	12.50	12.40	12.00	0.62	0.50	4.95	5.00	4.95	....	27.00	7455
13.85	12.50	12.33	12.00	1.52	0.50	5.00	5.00	5.00	....	28.95	5470
13.06	12.50	12.38	12.00	0.68	0.50	5.67	5.00	5.67	....	28.65	7508
13.27	12.50	12.69	12.00	0.58	0.50	5.08	5.00	5.08	....	27.33	7436
12.51	13.00	*11.71	12.00	0.80	1.00	5.14	5.00	5.14	....	25.75	6068
13.47	13.00	12.79	12.00	0.68	1.00	5.12	5.00	5.12	....	24.00	6930
13.05	13.00	12.27	12.00	0.78	1.00	5.05	5.00	5.05	....	27.00	6338
12.76	13.00	12.22	12.00	0.54	1.00	5.51	5.00	5.51	....	....	6733
13.16	13.00	12.28	12.00	0.88	1.00	4.87	5.00	4.87	....	26.50	6248
12.64	12.50	12.34	12.00	0.30	0.50	5.21	5.00	5.21	....	23.80	7476
13.06	13.00	12.66	12.00	0.40	1.00	5.24	5.00	5.24	....	30.00	7360
11.74	11.00	11.22	10.00	0.52	1.00	10.89	10.00	10.89	....	32.55	7362
11.38	11.00	10.36	10.00	1.02	1.00	*9.11	10.00	9.11	....	28.75	6527
12.50	12.00	*11.58	12.00	0.92	....	5.28	5.00	5.28	....	....	6804
12.91	12.00	12.27	12.00	0.64	....	5.34	5.00	5.34	....	....	5434
12.95	12.00	12.15	12.00	0.80	....	5.18	5.00	5.18	....	23.65	6688
12.97	12.00	12.23	12.00	0.74	....	5.09	5.00	5.09	....	27.15	5737
13.33	12.00	12.45	12.00	0.88	....	5.10	5.00	5.10	....	27.00	5069

\*Deficient.

TABLE VI—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>I. P. THOMAS &amp; SONS COMPANY, PHILADELPHIA, PA.</b>	
5887	Potash Mixture 0-12-5.....	Chester County Farm Bureau, West Chester.....
5681	Potash Mixture 0-12-5.....	Preston Eves & Son, Millville.....
5827	Potash Mixture 0-12-5.....	James Markle, State College.....
6697	Potash Mixture 0-12-5.....	C. W. Thomas, Danville.....
5053	Potash Mixture 0-12-5.....	Frank Warfel, Quarryville.....
	<b>F. W. TUNNELL &amp; COMPANY, INC., PHILADELPHIA, PA.</b>	
7325	Potash Manure 0-12-5.....	Martin F. Christman, Lehighton.....
7109	Potash Manure 0-12-5.....	F. W. Tunnell & Company, Inc., Philadelphia.....
	<b>UNITED STATES GUANO COMPANY, BALTIMORE, MD.</b>	
6478	Standard United States High Grade Phos- phate and Potash.....	M. H. Arnold, Sand Patch.....
7164	Standard United States High Grade Phos- phate and Potash.....	Ellis Kreider, Quarryville.....
	<b>VIRGINIA-CAROLINA CHEMICAL CORPORATION, NEW YORK, N. Y.</b>	
5772	V-C High Grade Potash Mixture.....	John D. Arey, Dushore.....
6292	V-C High Grade Potash Mixture.....	H. C. Beerits Sons, Somerset.....
7327	V-C High Grade Potash Mixture.....	Lehighton Hardware Co., Lehighton.....
5918	V-C High Grade Potash Mixture.....	Charles Schall, Northampton.....
5974	V-C High Grade Potash Mixture.....	West Apollo Milling Co., Apollo.....
5917	V-C Special Potash Mixture.....	Charles Schall, Northampton.....
5771	V-C 10% Phosphate and Potash.....	John D. Arey, Dushore.....
6367	V-C 10% Phosphate and Potash.....	A. L. Cowan, Brookville.....
6105	V-C 10% Phosphate and Potash.....	J. W. Johnson & Son, Albion.....
	<b>WASHINGTON, ALEXANDER &amp; COOKE CO., AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL CORPORA- TION, CHARLESTOWN, W. VA.</b>	
5333	Wacco Eight and Six.....	E. S. Kelly, Gettysburg.....
6889	Wacco Eight and Six.....	E. S. Kelly, Gettysburg.....
6892	Wacco Standard Potash Brand.....	E. S. Kelly, Gettysburg.....
	<b>YORK CHEMICAL WORKS, YORK, PA.</b>	
5094	Twelve and Five.....	Charles Bard, Knobsville.....
7500	Twelve and Five.....	H. N. Dilling, Martinsburg.....
7192	Twelve and Five.....	J. J. Markle, State College.....
7211	Twelve and Five.....	J. W. Seiber, McAllisterville.....
		Average.....

## POTASH FERTILIZERS—Concluded

PHOSPHORIC ACID						POTASH				Selling price per ton at place of selection	Chemist's number
Total		Available		Insoluble		Found	Guaranteed	Present as Muriate	Present as Sulphate.		
Found	Guaranteed	Found	Guaranteed	Found	Guaranteed						
%	%	%	%	%	%	%	%	%	%	\$	
13.90	13.00	12.02	12.00	1.88	1.00	5.65	5.00	4.70	0.95		5887
13.27	13.00	12.39	12.00	0.88	1.00	5.58	5.00	4.10	1.48	23.50	5681
13.90	13.00	13.20	12.00	0.70	1.00	5.64	5.00	4.00	1.64		5827
13.90	13.00	12.44	12.00	1.46	1.00	5.00	5.00	4.60	0.40	25.75	6697
13.65	13.00	13.07	12.00	0.58	1.00	5.48	5.00	4.20	1.28		5053
13.07	13.00	12.31	12.00	0.76	1.00	5.12	5.00	5.12	....	21.00	7325
13.20	13.00	12.58	12.00	0.62	1.00	5.07	5.00	5.07	....	....	7109
13.98	12.50	13.22	12.00	0.76	0.50	*4.28	5.00	3.50	0.78	22.80	6478
13.01	12.50	12.21	12.00	0.80	0.50	*4.35	5.00	4.35	....	....	7164
13.32	13.00	12.88	12.00	0.44	1.00	5.67	5.00	5.67	....	24.95	5772
13.50	13.00	12.54	12.00	0.96	1.00	5.01	5.00	5.01	....	28.00	6292
13.01	13.00	12.47	12.00	0.54	1.00	5.44	5.00	5.44	....		7327
12.79	13.00	12.29	12.00	0.50	1.00	5.90	5.00	5.90	....	24.50	5918
13.32	13.00	12.22	12.00	1.10	1.00	5.28	5.00	5.28	....	28.55	5974
10.84	11.00	10.44	10.00	0.40	1.00	4.07	4.00	4.07	....	22.05	5917
10.79	11.00	10.23	10.00	0.56	1.00	10.64	10.00	10.64	....	28.00	5771
11.17	11.00	10.63	10.00	0.54	1.00	10.02	10.00	10.02	....	31.00	6367
11.86	11.00	10.32	10.00	1.54	1.00	10.60	10.00	6.00	4.60	30.15	6105
9.44	8.00	9.10	8.00	0.34	....	7.15	6.00	7.15	....	24.00	5333
9.35	8.00	8.59	8.00	0.76	....	6.05	6.00	6.05	....	24.00	6889
10.21	10.00	*9.47	10.00	0.74	....	8.58	8.00	8.58	....	27.00	6892
12.25	12.00	12.05	12.00	0.20	....	5.03	5.00	5.03	....	23.60	5094
13.70	12.00	12.96	12.00	0.74	....	5.22	5.00	5.22	....	27.50	7500
13.23	12.00	12.87	12.00	0.36	....	5.24	5.00	5.24	....		7192
13.52	12.00	12.70	12.00	0.82	....	5.63	5.00	5.63	....	22.90	7211
12.64	....	12.02	....	0.62	....	5.77	....	....	....	26.46	....

\*Deficient.

TABLE VII—MISCELLANEOUS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
<b>NITRATE OF SODA</b>		
<b>THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.</b>		
5462	Nitrate of Soda.....	J. B. Anderson's Son, Shickshinny.....
6054	Nitrate of Soda.....	W. B. Beam, Paxtonia.....
5393	Nitrate of Soda.....	George A. Konkle, Montoursville.....
6230	Nitrate of Soda.....	Waite & Burnham, Tyrone.....
5632	Nitrate of Soda.....	John P. Walter, Vicksburg.....
<b>ARMOUR FERTILIZER WORKS, BALTIMORE, MD.</b>		
6197	Nitrate of Soda.....	D. Luther Bogenrief, Mifflinburg.....
5563	Nitrate of Soda.....	J. A. Gardner, Moscow.....
6223	Nitrate of Soda.....	Orr & Grazier, Tyrone.....
5367	Nitrate of Soda.....	Smith Brothers, Ridgway.....
<b>ASSOCIATED CHEMICAL COMPANY, BALTIMORE, MD.</b>		
5126	Nitrate of Soda.....	Chambersburg Fertilizer Works, Chambersburg...
6192	Nitrate of Soda.....	J. W. Herman, Beaver Springs.....
6455	Nitrate of Soda.....	A. W. Kenyon, Carbondale.....
<b>BAUGH &amp; SONS COMPANY, PHILADELPHIA, PA.</b>		
6343	Nitrate of Soda.....	Baugh & Sons Company, Philadelphia.....
6262	Nitrate of Soda.....	George H. Miller, Sidman.....
7399	Nitrate of Soda.....	E. P. Wargo, Danville.....
5712	Nitrate of Soda.....	West Manheim Farmers' Association, Hanover...
<b>AMOS EBY &amp; CO., LEAMAN PLACE, PA.</b>		
5038	Nitrate of Soda.....	Amos Eby & Co., Leaman Place.....
<b>FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.</b>		
5028	Nitrate of Soda.....	Farmers Fertilizer Works, Elizabethtown.....
<b>GRIFFITH &amp; BOYD CO., BALTIMORE, MD.</b>		
6631	Nitrate of Soda.....	Hoburg Brothers, Etna.....
6399	Nitrate of Soda.....	Houck & Cherrington, Catawissa.....
5984	Nitrate of Soda.....	R. R. Martin, Saltsburg.....
<b>THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.</b>		
5853	Nitrate of Soda.....	H. M. Brown, Indiana.....
5086	Nitrate of Soda.....	Clinton County Cooperative Association, Lock Haven.....
5960	Nitrate of Soda.....	C. C. Ritter, Middleburg.....
6484	Nitrate of Soda.....	Somerset Milling Co., Somerset.....
<b>THE JARECKI CHEMICAL CO., SANDUSKY, OHIO</b>		
5585	Nitrate of Soda.....	Pleasant Valley Orchards, Woodland.....
<b>FRED E. LORD, ESPY, PA.</b>		
5609	Nitrate of Soda.....	Fred E. Lord, Espy.....
6984	Nitrate of Soda.....	Fred E. Lord, Espy.....
<b>THE MILLER FERTILIZER CO., BALTIMORE, MD.</b>		
5767	Nitrate of Soda.....	B. F. Saxer, Dushore.....
<b>PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.</b>		
6072	Nitrate of Soda.....	Frey Brothers, Muncy.....

## FERTILIZERS

[illegible]

TABLE VII—MISCELLANEOUS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	READING BONE FERTILIZER CO., READING, PA.	
5283	Nitrate of Soda.....	Roy W. Layton, Warfordsburg.....
6461	Nitrate of Soda.....	G. L. Rice, Dallas.....
	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.	
6424	Royster's Nitrate of Soda.....	Chaapels Seed Store, Williamsport.....
5443	Royster's Nitrate of Soda.....	Weeks Hardware Co., Scranton.....
	STANDARD CHEMICAL WORKS, INC., READING, PA.	
5590	Nitrate of Soda.....	Mahoning Hardware, Punxsutawney.....
6334	Nitrate of Soda.....	Murray Co., Honesdale.....
6492	Nitrate of Soda.....	Wm. Westrick, Patton.....
	SUMMERS FERTILIZER CO., INC., BALTIMORE, MD.	
6110	Summer's Best on Earth Nitrate of Soda...	L. A. Carlson, Warren.....
	SWACKS FERTILIZER WORKS, DUBOIS, PA.	
6524	Nitrate of Soda.....	L. A. Yeckley, Patton.....
	SWIFT & COMPANY, BALTIMORE, MD.	
5962	Swift's Nitrate of Soda.....	Boyer Feed Co., Paxtonville.....
5554	Swift's Nitrate of Soda.....	John D. Williams, Moscow.....
5781	Swift's Nitrate of Soda.....	A. E. Woodruff & Son, Wysox.....
	I. P. THOMAS & SON COMPANY, PHILADELPHIA, PA.	
5364	Nitrate of Soda.....	Elk Cooperative Creamery, St. Marys.....
	UNITED STATES GUANO COMPANY, BALTIMORE, MD.	
6065	Nitrate of Soda.....	M. P. Close, Tioga.....
6404	Nitrate of Soda.....	S. F. Rarig, Catawissa.....
	VIRGINIA-CAROLINA CHEMICAL CORPORATION, NEW YORK, N. Y.	
6032	Nitrate of Soda.....	B. J. Crisman, Factoryville.....
7317	Nitrate of Soda.....	Wm. B. Deihl, Lehighton.....
6394	Nitrate of Soda.....	S. D. Guldin, Schuylkill Haven.....
6448	Nitrate of Soda.....	McConnell Brothers, Hughesville.....
	YORK CHEMICAL WORKS, YORK, PA.	
6014	Nitrate of Soda.....	B. W. Bedell, Mill City.....
5896	Nitrate of Soda.....	Red Lion Exchange, Red Lion.....
		Average.....
	SULPHATE OF AMMONIA	
	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
7052	Sulphate of Ammonia.....	Ewing & Kinsloe, Newton Hamilton.....
6467	Sulphate of Ammonia.....	Wm. Krause, Dallas.....
	ASSOCIATED CHEMICAL COMPANY, BALTIMORE, MD.	
5125	Sulphate of Ammonia.....	Chambersburg Fertilizer Works, Chambersburg...
6456	Sulphate of Ammonia.....	A. W. Kenycn, Carbondale.....
	THE BARRETT COMPANY, NEW YORK, N. Y.	
6608	Arcadian Sulphate of Ammonia.....	York Chemical Works, York.....

## FERTILIZERS—Continued.

[illegible]

TABLE VII—MISCELLANEOUS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>BAUGH &amp; SONS COMPANY, PHILADELPHIA, PA.</b>	
5449	Sulphate of Ammonia.....	B. E. & J. T. Cokely, Scranton.....
5729	Sulphate of Ammonia.....	W. C. Follmer, Benton.....
6701	Sulphate of Ammonia.....	W. C. Follmer, Benton.....
5969	Sulphate of Ammonia.....	Thomas K. George, Homer City.....
	<b>FORD MOTOR COMPANY, DETROIT, MICHIGAN</b>	
5076	Ford Ammonium Sulphate.....	Casselberry Motor Co., Lock Haven.....
	<b>KEYSTONE GRANGE EXCHANGE, INC., HARRISBURG, PA.</b>	
6648	Granger's Sulphate of Ammonia.....	N. H. Sloan, Rural Valley.....
	<b>FRED E. LORD, ESPY, PA.</b>	
5610	Sulphate of Ammonia.....	Fred E. Lord, Espy.....
6982	Sulphate of Ammonia.....	Fred E. Lord, Espy.....
	<b>F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.</b>	
6422	Royster's Sulphate of Ammonia.....	Chaaels Seed Store, Williamsport.....
6886	Royster's Sulphate of Ammonia.....	Milton O. Lauver, Mt. Pleasant Mills.....
5978	Royster's Sulphate of Ammonia.....	Parnassus Hardware Co., Parnassus.....
5444	Royster's Sulphate of Ammonia.....	Weeks Hardware Co., Scranton.....
	<b>STANDARD CHEMICAL WORKS, INC., READING, PA.</b>	
5856	Sulphate of Ammonia.....	S. T. Kanarr, Indiana.....
	<b>SWIFT &amp; COMPANY, BALTIMORE, MD.</b>	
5574	Swift's Sulphate of Ammonia.....	Archie Ridall, Berwick.....
5782	Swift's Sulphate of Ammonia.....	A. E. Woodruff & Son, Wysox.....
	<b>VIRGINIA-CAROLINA CHEMICAL CORPORATION, BALTIMORE, MD.</b>	
6371	Sulphate of Ammonia.....	A. L. Cowan, Brookville.....
6670	Sulphate of Ammonia.....	P. A. Marshall, Snicksburg.....
6449	Sulphate of Ammonia.....	McConnell Brothers, Hughesville.....
		Average.....
	<b>DRIED FISH</b>	
	<b>SWIFT &amp; COMPANY, BALTIMORE, MD.</b>	
6206	Swift's Dried Fish.....	W. W. Kalb, Sunbury.....
	<b>TANKAGE</b>	
	<b>ARMOUR FERTILIZER WORKS, BALTIMORE, MD.</b>	
5407	Ground Tankage.....	Eulalia Milling Co., Coudersport.....
	<b>ASSOCIATED CHEMICAL COMPANY, BALTIMORE, MD.</b>	
5127	Animal Tankage.....	Chambersburg Fertilizer Works, Chambersburg...
5145	Animal Tankage.....	Walker Brothers, Chambersburg.....
	<b>BAUGH &amp; SONS COMPANY, PHILADELPHIA, PA.</b>	
5448	Baugh's High Grade Tankage.....	B. E. & J. T. Cokely, Scranton.....
5728	Baugh's High Grade Tankage.....	W. C. Follmer, Benton.....
6702	Baugh's High Grade Tankage.....	W. C. Follmer, Benton.....

## FERTILIZERS—Continued.

NITROGEN		PHOSPHORIC ACID						POTASH				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
21.04	20.57	....	....	....	....	....	....	....	....	....	....	100.00	5449
21.10	20.57	....	....	....	....	....	....	....	....	....	....	70.00	5729
20.80	20.57	....	....	....	....	....	....	....	....	....	....	70.00	6701
20.88	20.57	....	....	....	....	....	....	....	....	....	....	75.00	5969
21.12	20.80	....	....	....	....	....	....	....	....	....	....	64.00	5076
20.96	20.57	....	....	....	....	....	....	....	....	....	....	63.32	6648
20.90	20.00	....	....	....	....	....	....	....	....	....	....	60.00	5610
20.80	20.00	....	....	....	....	....	....	....	....	....	....	60.00	6982
20.90	20.56	....	....	....	....	....	....	....	....	....	....	80.00	6422
20.82	20.56	....	....	....	....	....	....	....	....	....	....	65.00	6886
20.94	20.56	....	....	....	....	....	....	....	....	....	....	100.00	5978
20.84	20.56	....	....	....	....	....	....	....	....	....	....	110.00	5444
20.90	20.50	....	....	....	....	....	....	....	....	....	....	65.00	5856
20.90	20.56	....	....	....	....	....	....	....	....	....	....	65.00	5574
20.80	....	....	....	....	....	....	....	....	....	....	....	80.00	5782
20.76	20.56	....	....	....	....	....	....	....	....	....	....	....	6371
20.94	20.56	....	....	....	....	....	....	....	....	....	....	64.00	6670
20.80	20.56	....	....	....	....	....	....	....	....	....	....	70.00	6449
20.90	....	....	....	....	....	....	....	....	....	....	....	73.02	....
*7.73	8.22	1.10	1.00	....	....	....	....	....	....	....	....	....	6206
7.46	7.40	11.07	6.87	....	....	....	....	....	....	....	....	58.00	5407
6.95	4.93	13.65	13.73	....	....	....	....	....	....	....	....	50.00	5127
5.02	4.93	*12.78	13.73	....	....	....	....	....	....	....	....	....	5145
6.41	5.76	9.61	8.00	....	....	....	....	....	....	....	....	85.00	5448
6.35	5.76	8.42	8.00	....	....	....	....	....	....	....	....	56.00	5728
6.23	5.76	7.87	8.00	....	....	....	....	....	....	....	....	55.00	6702

\*Deficient.

TABLE VII—MISCELLANEOUS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	<b>THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.</b>	
6026	9% Tankage.....	Gallagher & Stevick, Wilkes-Barre.....
	<b>FRED E. LORD, ESPY, PA.</b>	
5605	Fertilizer Tankage.....	Fred E. Lord, Espy.....
	<b>SWIFT &amp; COMPANY, BALTIMORE, MD.</b>	
5742	Swift's Tankage 6%.....	S. R. Kline, Benton.....
6609	Swift's Tankage 9%.....	Luzerne County Cooperative Association, Wilkes-Barre.....
	<b>UNITED HOME DRESSED MEAT CO., ALTOONA, PA.</b>	
6261	Dry Tankage.....	United Home Dressed Meat Co., Altoona.....
	<b>F. L. WINNER, LOCK HAVEN, PA.</b>	
5075	Winner's Tankage.....	F. L. Winner, Lock Haven..... Average.....
	<b>KAINIT</b>	
	<b>THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.</b>	
5477	Kainit.....	Frank Brumbaugh, New Enterprise.....
5396	Kainit.....	George A. Konkle, Montoursville.....
6242	Kainit.....	David Leighty, Newery.....
	<b>BAUGH &amp; SONS COMPANY, PHILADELPHIA, PA.</b>	
7400	Genuine Imported Kainit.....	E. P. Wargo, Danville..... Average.....
	<b>MANURE SALT</b>	
	<b>FRED E. LORD, ESPY, PA.</b>	
5607	Manure Salt.....	Fred E. Lord, Espy.....
	<b>MURIATE OF POTASH</b>	
	<b>THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.</b>	
5293	Muriate of Potash.....	Gump & Son, Everett.....
6745	Muriate of Potash.....	H. T. Gump & Co., Everett.....
5392	Muriate of Potash.....	George A. Konkle, Montoursville.....
6466	Muriate of Potash.....	Win. Krause, Dallas.....
	<b>ARMOUR FERTILIZER WORKS, BALTIMORE, MD.</b>	
6006	Big Crop Muriate of Potash.....	H. G. Lake, Montrose.....
5114	Big Crop Muriate of Potash.....	Strite & Eshelman, Greencastle.....
	<b>ASSOCIATED CHEMICAL COMPANY, BALTIMORE, MD.</b>	
5124	Muriate of Potash.....	Chambersburg Fertilizer Works, Chambersburg..
	<b>BAUGH &amp; SONS COMPANY, PHILADELPHIA, PA.</b>	
6814	Muriate of Potash.....	D. W. Faust & Son, Chambersburg.....
5730	Muriate of Potash.....	W. C. Follmer, Benton.....
5968	Muriate of Potash.....	Thomas K. George, Homer City.....
6221	Muriate of Potash.....	Orr & Grazier, Tyrone.....
	<b>DELAWARE RIVER CHEMICAL WORKS, BALTIMORE, MD.</b>	
5398	Muriate of Potash.....	D. E. Goodenough, Coudersport.....

## FERTILIZERS—Continued.

NITROGEN		PHOSPHORIC ACID.						POTASH				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
7.62	7.40	9.95	4.00	....	....	....	....	....	....	....	....	75.00	6026
6.37	6.16	10.05	9.00	....	....	....	....	....	....	....	....	45.00	5605
5.39	4.93	*11.51	12.00	....	....	....	....	....	....	....	....	46.75	5742
7.28	7.40	13.90	1.00	....	....	....	....	....	....	....	....	55.75	6609
6.57	6.00	14.29	9.00	....	....	....	....	....	....	....	....	35.00	6261
7.15	6.50	12.51	12.00	....	....	....	....	....	....	....	....	40.00	5075
6.57	....	11.30	....	....	....	....	....	....	....	....	....	54.68	....
....	....	....	....	....	....	....	....	12.57	12.40	12.57	....	....	5477
....	....	....	....	....	....	....	....	12.46	12.40	12.46	....	23.00	5396
....	....	....	....	....	....	....	....	12.67	12.40	12.67	....	16.00	6242
....	....	....	....	....	....	....	....	15.78	12.40	15.78	....	20.00	7400
....	....	....	....	....	....	....	....	13.37	....	....	....	19.67	....
....	....	....	....	....	....	....	....	21.10	20.00	21.10	....	25.20	5607
....	....	....	....	....	....	....	....	48.96	48.00	48.96	....	65.00	5293
....	....	....	....	....	....	....	....	48.72	48.00	48.72	....	130.00	6745
....	....	....	....	....	....	....	....	48.02	48.00	48.02	....	54.00	5392
....	....	....	....	....	....	....	....	*47.69	48.00	47.69	....	48.00	6466
....	....	....	....	....	....	....	....	55.20	48.00	55.20	....	60.00	6006
....	....	....	....	....	....	....	....	52.16	48.00	52.16	....	....	5114
....	....	....	....	....	....	....	....	53.96	50.00	53.96	....	50.00	5124
....	....	....	....	....	....	....	....	50.60	48.00	50.60	....	....	6814
....	....	....	....	....	....	....	....	51.39	48.00	51.39	....	52.00	5730
....	....	....	....	....	....	....	....	51.54	48.00	51.54	....	57.50	5968
....	....	....	....	....	....	....	....	50.00	48.00	50.00	....	57.40	6221
....	....	....	....	....	....	....	....	†*47.40	....	47.40	....	52.50	5398

†Compared with registered guarantee.

\*Deficient.

TABLE VII—MISCELLANEOUS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
5037	AMOS EBY & CO., LEAMAN PLACE, PA. Muriate of Potash.....	Amos Eby & Co., Leaman Place.....
5024	FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA. Muriate of Potash.....	Farmers Fertilizer Works, Elizabethtown.....
5201	Muriate of Potash.....	Jeremiah Kauffman, Berne.....
5983	GRIFFITH & BOYD CO., BALTIMORE, MD. Muriate of Potash.....	R. R. Martin, Saltsburg.....
5078	THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD. Muriate of Potash.....	Clinton County Cooperative Association, Lock Haven.....
6483	Muriate of Potash.....	Somerset Milling Co., Somerset.....
6878	KEYSTONE GRANGE EXCHANGE, INC., HARRISBURG, PA. Granger's Muriate of Potash.....	Freemont Grange, Mt. Pleasant Mills.....
5608	FRED E. LORD, ESPY, PA. Muriate of Potash.....	Fred E. Lord, Espy.....
6983	Muriate of Potash.....	Fred E. Lord, Espy.....
5152	PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD. Muriate of Potash.....	Walker Brothers, Chambersburg.....
5280	READING BONE FERTILIZER CO., READING, PA. Muriate of Potash.....	Roy W. Layton, Warfordsburg.....
6323	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD. Royster's Muriate of Potash.....	Ord. J. Dohl, Harveyville.....
7439	Royster's Muriate of Potash.....	O. O. Ortwine, Millville.....
6536	STANDARD CHEMICAL WORKS, INC., READING, PA. Muriate of Potash.....	Ben. Levan, Catawissa.....
6736	Muriate of Potash.....	Northampton Cooperative Farmers, Inc., Nazareth.
5744	SWIFT & COMPANY, BALTIMORE, MD. Swift's Muriate of Potash.....	S. R. Kline, Benton.....
5573	Swift's Muriate of Potash.....	Archie Ridall, Berwick.....
5363	I. P. THOMAS & SON COMPANY, PHILADELPHIA, PA. Muriate of Potash.....	Elk Co-operative Creamery, St. Marys.....
6405	UNITED STATES GUANO COMPANY, BALTIMORE, MD. Muriate of Potash.....	Wm. Grant Beaver, Catawissa.....
6607	Muriate of Potash.....	Neil Harrison, Forks.....
6370	VIRGINIA-CAROLINA CHEMICAL CORPORATION, BALTIMORE, MD. Muriate of Potash.....	A. L. Cowan, Brookville.....
7316	Muriate of Potash.....	Wm. B. Deihl, Lehighton.....
6038	Muriate of Potash.....	Jackson & Hortman, Hop Bottom.....
5971	Muriate of Potash.....	West Apollo Milling Co., Apollo.....

## FERTILIZERS—Continued.

NITROGEN		PHOSPHORIC ACID.						POTASH				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	£	
....	....	....	....	....	....	....	....	51.08	48.00	51.08	....	...	5037
....	....	....	....	....	....	....	....	50.40	50.00	50.40	....	50.00	5024
....	....	....	....	....	....	....	....	52.36	50.00	52.36	....	52.00	5201
....	....	....	....	....	....	....	....	50.91	48.00	50.91	...	52.00	5983
....	....	....	....	....	....	....	....	51.76	50.00	51.76	...	48.90	5078
....	....	....	....	....	....	....	....	50.90	50.00	50.90	...	48.90	6483
....	....	....	....	....	....	....	....	51.80	48.00	51.80	...	....	6878
....	....	....	....	....	....	....	....	51.52	50.00	51.52	....	45.00	5608
....	....	....	....	....	....	....	....	*49.66	50.00	49.66	....	46.00	6983
....	....	....	....	....	....	....	....	48.12	48.00	48.12	....	....	5152
....	....	....	....	....	....	....	....	51.68	50.00	51.68	...	55.00	5280
....	....	....	....	....	....	....	....	51.56	48.00	51.56	....	50.50	6323
....	....	....	....	....	....	....	....	52.04	48.00	52.04	....	54.00	7439
....	....	....	....	....	....	....	....	51.32	50.00	51.32	....	48.00	6536
....	....	....	....	....	....	....	....	51.16	50.00	51.16	....	....	6736
....	....	....	....	....	....	....	....	50.00	48.00	50.00	....	51.20	5744
....	....	....	....	....	....	....	....	51.35	48.00	51.35	....	50.00	5573
....	....	....	....	....	....	....	....	50.12	....	50.12	....	45.00	5363
....	....	....	....	....	....	....	....	51.20	48.00	51.20	....	41.05	6405
....	....	....	....	....	....	....	....	49.40	....	49.40	....	43.00	6607
....	....	....	....	....	....	....	....	*47.56	48.00	47.56	....	....	6370
....	....	....	....	....	....	....	....	52.88	48.00	52.88	....	51.75	7316
....	....	....	....	....	....	....	....	50.83	48.00	50.83	....	50.00	6038
....	....	....	....	....	....	....	....	51.92	48.00	51.92	....	57.76	5971

\*Deficient.

TABLE VII—MISCELLANEOUS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
6016 6508 5895	YORK CHEMICAL WORKS, YORK, PA. Muriate of Potash..... Muriate of Potash..... Muriate of Potash.....	B. W. Bedell, Mill City..... H. M. Mohler, Carrolltown..... Red Lion Exchange, Red Lion..... Average.....
6207	SULPHATE OF POTASH  F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD. Royster's Sulphate of Potash.....	W. W. Kalb, Sunbury.....
5027	MISCELLANEOUS  FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA. Farmer's Top Dressing.....	Farmers Fertilizer Works, Elizabethtown. ....
7120	McCALLUM COMPANY, INC., LANCASTER, PA. Fertobae.....	Moore Seed Co., Philadelphia.....
6685	SYNTHETIC NITROGEN PRODUCTS CORPORATION, NEW YORK, N. Y. Calurea.....	M. B. Kephart, Huntingdon.....

## FERTILIZERS—Concluded

NITROGEN		PHOSPHORIC ACID.						POTASH				Selling price per ton at place of selection.	Chemist's number.
Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	\$	
.....	.....	.....	.....	.....	.....	.....	.....	51.43	50.00	51.43	.....	52.00	6016
.....	.....	.....	.....	.....	.....	.....	.....	*48.36	50.00	48.36	.....	50.50	6508
.....	.....	.....	.....	.....	.....	.....	.....	*49.53	50.00	49.53	.....	.....	5895
.....	.....	.....	.....	.....	.....	.....	.....	50.68	.....	.....	.....	53.84	.....
.....	.....	.....	.....	.....	.....	.....	.....	48.48	48.00	2.30	46.18	60.00	6207
*6.58	6.97	11.66	6.50	8.16	6.00	3.50	0.50	.....	.....	.....	.....	48.00	5027
2.53	2.47	1.02	0.50	.....	.....	.....	.....	5.07	3.50	.....	.....	60.00	7120
33.84	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120.00	6685

\*Deficient.

